

LIBRARY

LIBRARY





STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources

BULLETIN No. 130-70

HYDROLOGIC DATA: 1970

Volume IV: SAN JOAQUIN VALLEY

APR 2 1973

SEP 2 1975
REC'D

UCD

NORMAN B. LIVERMORE, JR.
Secretary for Resources

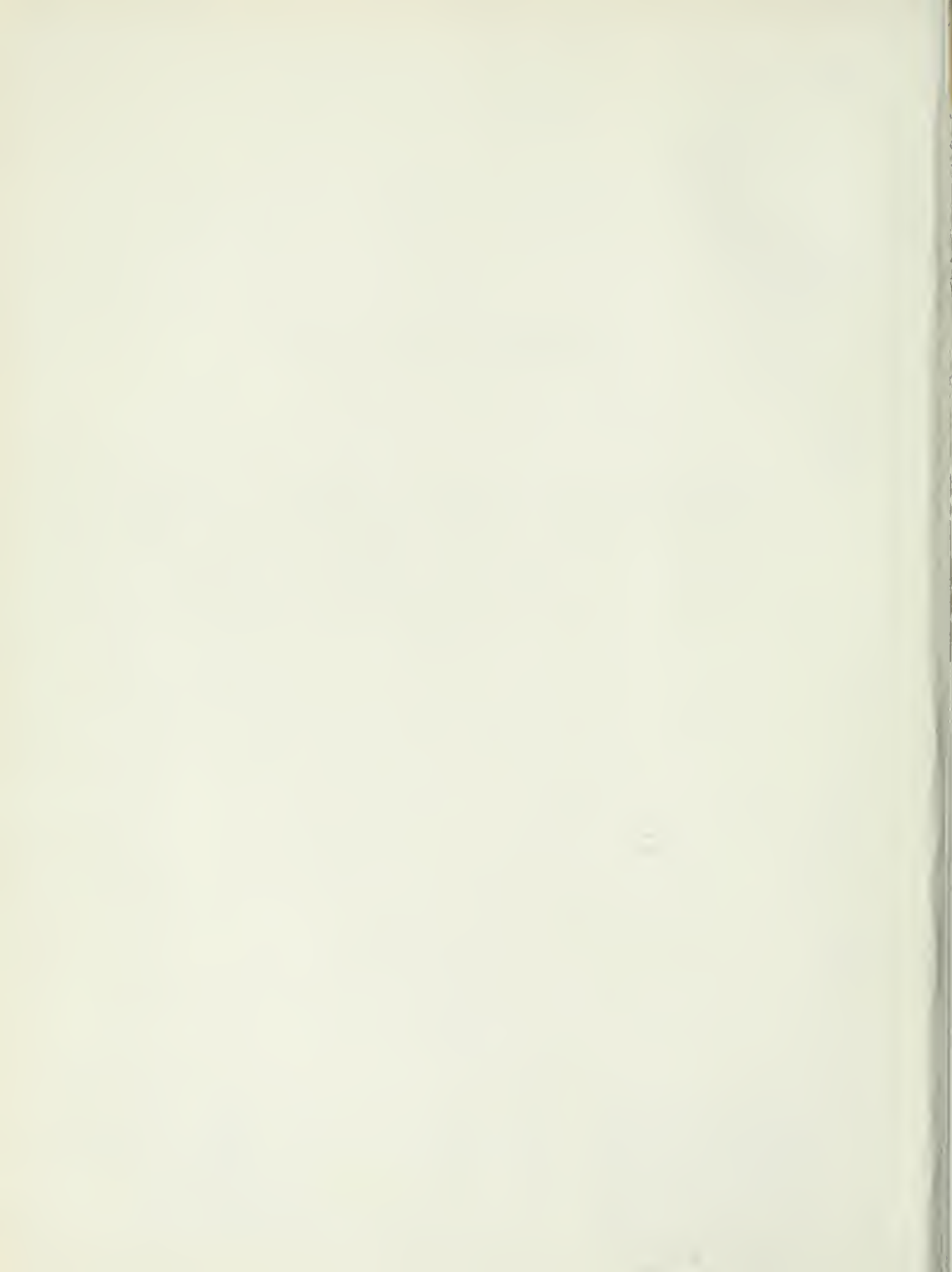
LIBRARY

DECEMBER 1971

RONALD REAGAN
Governor

DEC 1 1972

WILLIAM R. GIANELLI
Director



STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources

BULLETIN No. 130-70

HYDROLOGIC DATA: 1970
Volume IV: SAN JOAQUIN VALLEY

Copies of this bulletin at \$4.00 each may be ordered from:

State of California
DOCUMENTS SECTION
P.O. Box 20191
Sacramento, California 95820

Make checks payable to STATE OF CALIFORNIA.
California residents add 5 percent sales tax.

DECEMBER 1971

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

VOLUME I
NORTH COASTAL
AREA

VOLUME II
NORTHEASTERN
CALIFORNIA

VOLUME III
CENTRAL
COASTAL
AREA

VOLUME IV
SAN JOAQUIN
VALLEY

This Area Reported In
Volume III & V

BULLETIN No. 130

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

Each Volume Contains

Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality
Appendix F: Waste Water Data

This Volume



VOLUME V
SOUTHERN CALIFORNIA

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-70 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli
William R. Gianelli, Director
Department of Water Resources
State of California
October 4, 1971

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	
Degrees Fahrenheit (°F)	Degrees Celsius (°C) = (°F-32°)5/9	

TABLE OF CONTENTS

	<u>Page</u>
AREAL COVERAGE OF VOLUMES	11
FOREWORD	111
METRIC CONVERSION TABLE	1v
ORGANIZATION, DEPARTMENT OF WATER RESOURCES	vii
ACKNOWLEDGMENTS	ix
ABSTRACT	x

APPENDICES

Appendix A: CLIMATOLOGICAL DATA	1
Introduction	3

FIGURES

<u>Figure Number</u>		
A-1	Climatological Observation Stations	4

TABLES

<u>Table Number</u>		
A-1	Index of Climatological Stations	11
A-2	Precipitation Data	18
A-3	Storage Gage Precipitation Data	23
A-4	Evaporation Data	25
A-5	Climatological Station Changes and Relocations	27

Appendix B: SURFACE WATER MEASUREMENT	29
Introduction	31
Alphabetical Index to Tables	32
Hydrographic Area and Stream Basin Index to Surface Water Measurement Stations	33

FIGURES

<u>Figure Number</u>		
B-1	Location of Surface Water Measurement Stations	34

TABLES

<u>Table Number</u>		
B-1	Annual Unimpaired Runoff	40
B-2	Monthly Unimpaired Runoff	42
B-3	Gaging Station Additions and Discontinuations	43
B-4	Daily Mean Discharge	44
B-5	Streamflow Measurements at Miscellaneous Locations	98
B-6	Diversions	99
B-7	Diversions and Acreage Irrigated--Eastside Canals and Irrigation Districts	109
B-8	Deliveries from Central Valley Project Canals	110
B-9	Deliveries from California Aqueduct	112
B-10	Imports and Exports	113
B-11	Daily Mean Gage Height	114
B-12	Corrections and Revisions to Previously Published Reports	133

TABLE OF CONTENTS (Continued)

	<u>Page</u>
Appendix C: GROUND WATER MEASUREMENT	137
Introduction	139
FIGURES	
<u>Figure</u> <u>Number</u>	
C-1 Fluctuation of Average Water Level in Selected Areas	140
C-2 Fluctuation of Water Levels in Selected Wells	146
TABLES	
<u>Table</u> <u>Number</u>	
C-1 Change in Average Ground Water Level in Districts or Areas in the San Joaquin Valley . .	162
C-2 Change in Average Ground Water Level from 1921 to 1951 and 1951 to 1970 in 18 Ground Water Areas in the San Joaquin Valley	165
C-3 Ground Water Levels at Wells	166
C-4 Ground Water Recharge	181
Appendix D: SURFACE WATER QUALITY	183
Introduction	185
FIGURES	
<u>Figure</u> <u>Number</u>	
D-1 Location of Surface Water Quality Surveillance Stations	187
D-2 Daily Mean Specific Conductance at Selected Stations, San Joaquin Valley	188
TABLES	
<u>Table</u> <u>Number</u>	
D-1 Surveillance Station Data and Index for Surface Water	186
D-2 Mineral Analyses of Surface Water	191
D-3 Trace Mineral Analyses of Surface Water	196
D-4 Miscellaneous Constituents of Surface Water	199
Appendix E: GROUND WATER QUALITY	201
Introduction	203
TABLES	
<u>Table</u> <u>Number</u>	
E-1 Mineral Analyses of Ground Water	204
E-2 Trace Mineral Analyses of Ground Water	212
E-3 Miscellaneous Constituents of Ground Water	214
Appendix F: WASTE WATER DATA	217
Introduction	219
TABLE	
<u>Table</u> <u>Number</u>	
F-1 Inventory of Municipal Waste Discharges - Tulare Lake Subbasin	220
PLATES (Bound at end of volume)	
<u>Plate</u> <u>Number</u>	
1 Ground Water Level Changes, Unconfined and Semiconfined Aquifers, and Selected Observation Wells	
2 Ground Water Level Changes, Confined and Semiconfined Aquifers, and Cooperative Program Areas	
3 Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951, & 1970	
4 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1970	
5 Lines of Equal Change of Water Levels in Wells, Pressure Surface and Unconfined Aquifers, San Joaquin Valley, Spring 1965 to Spring 1970	

State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, JR., Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources

This report prepared under the direction of
JOHN R. TEERINK, Deputy Director

by the

SAN JOAQUIN DISTRICT

Carl L. Stetson District Engineer, San Joaquin District
Floyd I. Bluhm Chief, Water Supply and Utilization Section
G. Donald Meixner Chief, Planning and Investigations Section

Activities covered by and the preparation of this
report were under the supervision of

Cledith L. Chastain Chief, Water Supply Unit
Victor B. McIntyre Chief, Water Quality Unit

Appendixes A, B, and C of this report were prepared by

William A. Mancebo Climatology Water Resources Technician II
Harry R. Brenner Surface Water Water Resources Technician II
John Gostanian Ground Water Water Resources Engineering Associate
Robert W. Grimshaw Modesto Field Office Water Resources Engineering Associate

Assisted by

Keithal B. Dick Water Resources Technician II
Donald R. Henley Water Resources Technician II
Thomas E. Stowell, Jr. Water Resources Technician II
Donald W. Colburn Water Resources Technician II
John E. Baird Water Resources Technician II
James H. Davies Water Resources Technician I
Lloyd Hartwig Water Resources Technician I
Anthony D. Camoroda Engineering Aid II
Tracy E. Nelson Engineering Aid II
Joseph F. Schweitzer Delineator
C. Collette Blair Stenographer II

Appendixes D, E, and F of this report were prepared by

James M. Windsor Water Resources Engineering Associate

Assisted by

Stanley J. Kuffel Water Resources Technician II
Samuel A. Krapp Engineering Aid II
Lester S. Obata Engineering Aid II
Gary J. Riddle Engineering Aid II
Linda E. Wayman Engineering Aid I
Carlynn J. Blackwell Stenographer II

Reviewed and coordinated by Division of Resources Development,
Environmental Quality Branch
Water Resources Evaluation Section



ACKNOWLEDGMENTS

In the collection of data for this bulletin, the Department has been aided by various public and private agencies and by many private citizens. This cooperation is gratefully acknowledged, and it is especially fitting to commend the following agencies:

National Weather Service
U. S. Bureau of Reclamation
U. S. Army Corps of Engineers
U. S. Geological Survey
State Department of Public Health
City and County of San Francisco
City of Modesto
Kern County Water Agency
Kern County Land Company
Buena Vista Water Storage District
Modesto Irrigation District
Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation Department

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, surface and ground water quality, and waste water in the San Joaquin Valley for the 1969-70 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1970; profile of ground water levels; cooperative study areas; ground water level changes, and well locations.

APPENDIX A
CLIMATOLOGICAL DATA



INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the San Joaquin Valley from July 1, 1969 to September 30, 1970. Storage gage precipitation data are annual values. Thirty-two cooperating agencies and 93 local observers supplied the data for the 333 stations reported. Detailed daily and hourly data for some stations, not published here, are available in the files of the Department of Water Resources.

To insure accuracy, stations are inspected annually or semiannually to see that the equipment is properly maintained and that observations generally are taken in accordance with National Weather Service standards.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

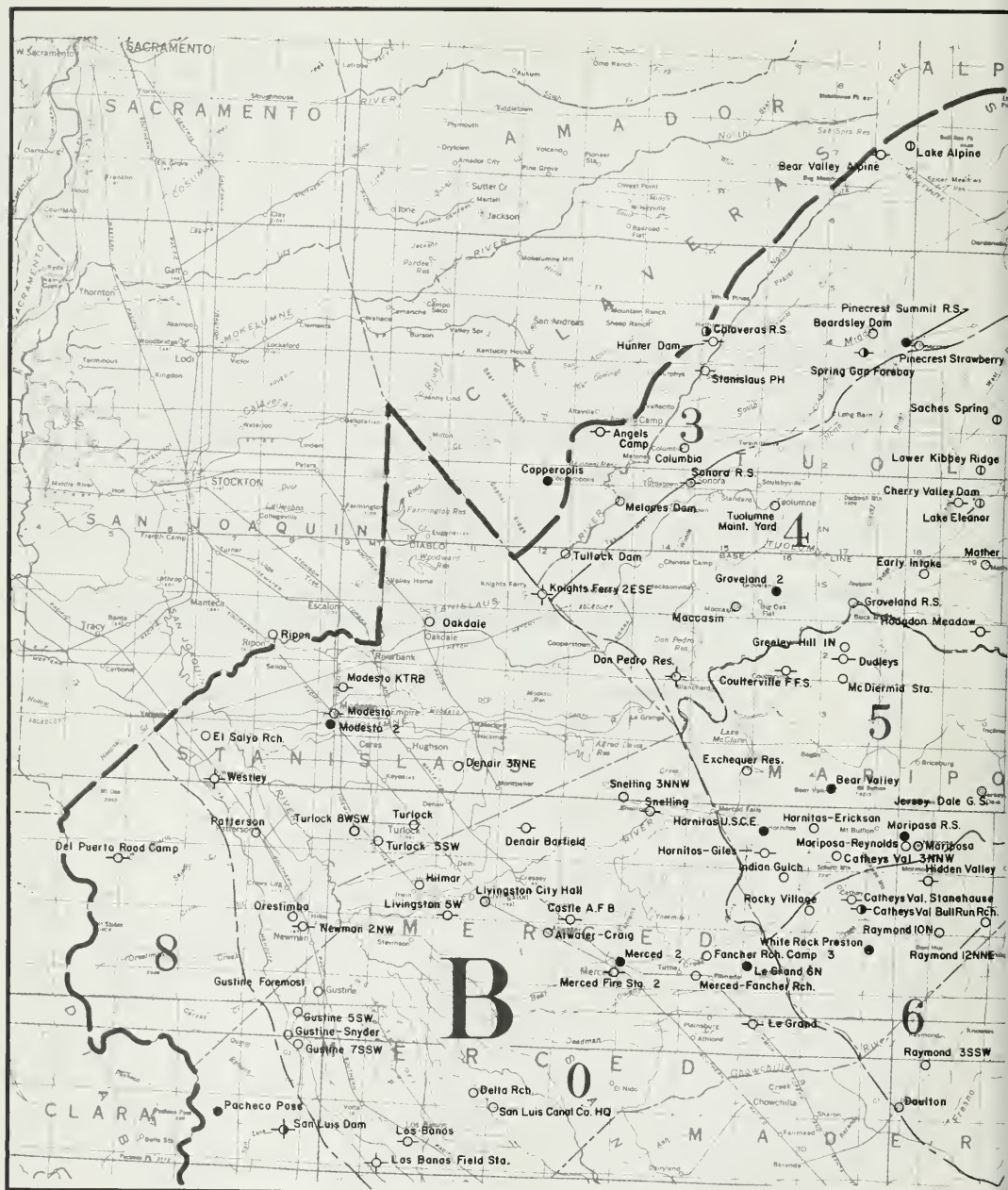
SAN JOAQUIN RIVER BASIN

B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side



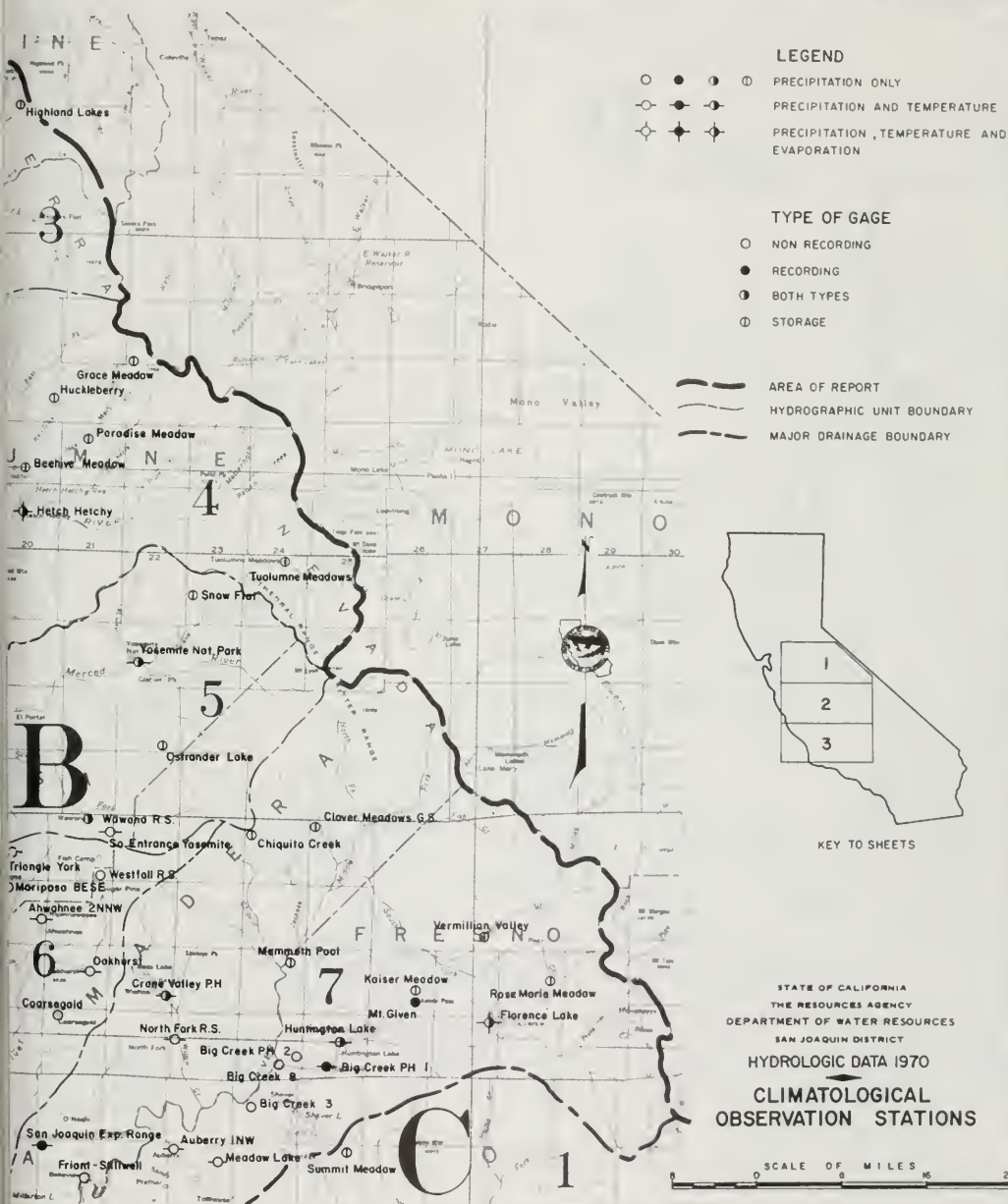








TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

- 000 - Private Cooperators
- 001 - 399 Private Agencies
 - 001 Kern County Land Company
 - 002 Boswell Company
 - 003 P. G. and E. Company
 - 004 Southern California Edison Company
 - 005 California Electric Power Company
 - 010 Amateur Radio Weather Network KTRB
 - 011 Southern Pacific Company
 - 012 Miller and Lux, Inc.
 - 013 Central California Irrigation District
- 400 - 799 Counties and municipalities
 - 401 Hetch Hetchy Water Supply
 - 404 Oakdale Irrigation District
 - 405 City of Los Angeles, Department of Water & Power
 - 420 Stanislaus County
- 800 - 899 State
 - 801 Pomology Department, University of California, Davis
 - 804 Division of Beaches and Parks
 - 805 State Department of Fish and Game
 - 806 Department of Water Resources
 - 808 Division of Forestry
 - 809 Division of Highways

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the National Weather Service stations are the same as those used by the National Weather Service. The National Weather Service station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-1
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	M	36	52	58	119	32	25	000		1958		10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E	M	M	37	23	22	119	44	07	907		1959		20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M	35	59	25	119	28	42	900		1899		54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	S	M	38	04	20	120	32	18	003		1908		05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M	35	38	48	120	10	12	000		1952		15
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	M	35	12	00	118	49	00	000		1936		15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M	36	29	30	118	49	35	900		1925		54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	M	37	21	120	37	00	000		1961	1969	24	
C2 0374	ATWELL	6400	SEC 12	T17S	R30E	A	M	36	28	00	118	40	00	900		1948		54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A	M	37	05	40	119	29	50	900		1915		10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	M	35	48	23	120	05	18	000		1919		16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	M	35	57	33	120	13	25	000		1957		16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	M	35	55	30	120	10	05	000		1953		16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	M	36	37	53	119	00	46	900		1940		54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M	35	22	41	119	02	17	900		1913	1969	15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M	35	25	38	119	02	34	900		1933		15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	M	36	54	33	119	05	15	900		1921		10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	M	36	49	118	53	00	900		1961		10	
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R10E	E	M	38	27	45	120	02	30	000		1967		02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	M	37	34	120	07	00	903		1960		22	
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	M	38	12	12	120	04	30	404		1959		55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E	M	M	36	41	00	118	52	00	900		1959		54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	M	M	38	00	00	119	47	00	900		1947		55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	M	35	20	11	119	05	27	001		1961	1969	15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	M	36	41	05	119	01	50	000		1967		10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	M	37	12	15	119	14	20	900		1915		10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	M	37	11	59	119	18	19	004		1913		10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	M	37	08	54	119	23	00	004		1922		10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	M	37	12	00	119	20	00	004		1921		10
C0 0875	BLACKWELLS CORNER 2 WNW	7100	SEC 35	T26S	R19E	L	M	35	37	15	119	53	40	900		1944		13 15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E	M	M	36	57	37	119	26	45	808		1961		10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	M	37	02	18	119	14	24	905		1960		10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M	35	21	00	119	19	00	001		1944	1969	15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M	35	11	42	119	11	43	002		1955		15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	M	35	14	25	119	18	23	002		1962		15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K	M	35	24	00	119	28	00	900		1940		15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	M	38	11	50	120	21	55	900		1944		05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	M	36	08	17	118	37	36	000		1959		54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	M	36	28	35	120	23	20	000		1955		10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	M	36	32	48	119	45	30	000		1960		10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M	37	22	03	120	34	20	902		1951		24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H	M	37	23	56	120	03	08	900		1940		22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M	37	28	33	120	06	33	000		1957		22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	M	37	24	30	120	05	00	000		1951		22
C5 1647	CHAGOOPA	10390		T16S	R33E	M	M	36	30	118	27	00	901		1964		54	
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M	37	58	00	119	55	00	900		1955		55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	M	36	05	13	120	29	22	000		1969		10
B7 1737	CHICOITO CREEK	7290	SEC 07	T05S	R24E	N	M	37	30	20	119	23	21	000		1961		20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 05	T27S	R17E	R	M	35	35	00	120	07	00	000		1951		40
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W	S	M	34	48	00	119	01	00	900		1941		56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	S	35	02	18	118	58	28	001		1963	1969	15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E	M	M	37	32	119	17	00	900		1946		20	
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	M	36	09	00	120	21	00	900		1942		10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	M	36	02	18	120	26	40	000		1953		10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	M	36	07	39	120	20	38	900		1911		10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E	M	M	36	14	00	120	34	00	900		1949		10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	M	36	08	03	120	22	00	808		1961		10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E	M	M	37	16	00	119	42	00	907		1952		20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M	36	42	00	120	28	25	000		1954		10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N	M	38	02	22	120	24	37	000		1969		55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	M	37	59	00	120	38	00	903		1954		03 05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	M	36	05	53	119	34	51	900		1912		16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E	M	36	02	36	119	38	42	002		1958		16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	M	35	57	49	119	42	14	002		1951	1969	16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	M	37	43	25	120	12	12	808		1959		22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E	M	M	36	34	00	118	21	00	900		1948		54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	M	37	17	26	119	31	35	003		1903		20
B6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	M	35	07	118	35	00	806		1961		15	
B6 2288	DAULTON	410	SEC 26	T09S	R18E	S	M	37	07	18	119	59	00	000		1946		20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	M	35	57	15	118	51	28	000		1968	1969	54

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator's Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900		1876		15
C0 2346-01	DELANO GOV T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904		1952		15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900		1958		50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	37	07	00	120	44	00	013		1949		01 24	
B0 2389	DENAIR 3 NNE	137	SEC 20	T04S	R11E	M	37	34		120	47		900		1964		50	
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000		1965		24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	118	58	22	000		1959		15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000		1937		15
C0 2440-01	DINUBA ALTA I O	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000		1944		54
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000		1959		10
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000		1958 1970		10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904		1940		55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	M	M	35	57	00	118	36	00	900		1955		54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900		1909		22
C1 2577	DUSY BENCH	9470		T10S	R31E	M	37	06		118	35		901		1964		10	
C3 2591	EAGLE CREEK	6650		T22S	R31E	M	35	59		118	39		903		1964		54	
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401		1925		55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	M	M	35	06	05	119	01	45	001		1963 1969		15
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000		1953		50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000		1944		39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900		1935		22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900		1938		54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000		1959		24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000		1956		15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000		1934 1969		10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900		1942		10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000		1933		10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900		1940		10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808		1965		54
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900		1899		10
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806		1963		10
B7 3261	FRANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900		1896		10
B7 3261-05	FRANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	118	38	48	000		1965		20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900		1921		54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002		1960		15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900		1951		15
C4 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900		1940		15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E	M	M	38	09	00	119	36	00	900		1947		55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900		1924		54
B5 3586-05	GRELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000		1965		22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900		1940		55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900		1940		55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000		1927		24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000		1930		24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000		1928		24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000		1958		24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900		1899		16
C0 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000		1964		16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905		1960		10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900		1910		55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000		1949		22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900		1960		02
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000		1948		24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	M	36	22	00	118	39	00	900		1959		54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E	M	37	48		118	52		907		1967		55	
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002		1952 1969		16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000		1955		22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000		1939		22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901		1960		22
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E	L	M	36	11	00	118	37	00	900		1959		54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	M	M	38	06	00	119	45	00	900		1948		55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900		1950		05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900		1915		10
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	M	36	15	41	120	06	05	000		1951		10
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900		1918		35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000		1952		22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R31E	P	M	35	38	46	118	28	45	903		1949		15
C0 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000		1954		54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E	M	37	32	36	119	50		905		1958		22	
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900		1954		54

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E	M	37	18	00	119	06	00	900		1946			10
C2 4452	KAWAHE PH 3	1370	SEC 33	T16S	R29E	Q	36	29	12	118	50	06	004		1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	35	13	28	118	33	55	000		1948			15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	35	26	27	118	47	45	003		1916			15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	35	56	43	118	28	33	004		1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	35	27	37	118	46	48	900		1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	35	46	35	118	26	08	900		1946			15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C	35	59	45	119	57	55	900		1930		03	16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F	36	01	50	120	06	15	000		1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	36	04	28	120	05	18	000		1933			16
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E	M	37	47	54	120	38	42	900		1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	38	28	42	120	00	48	900		1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	37	58	00	119	53	00	900		1909			56
C6 4863	LEBE	3585	SEC 26	T09N	R19W	P	34	49	58	118	51	51	900		1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	37	13	50	120	14	50	900		1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	37	18	39	120	15	05	000		1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	36	23	20	119	01	31	900		1899			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	36	11	24	119	04	20	900		1913			54
B8 4979	LITTLE PANOCHE DET RES	677	SEC 20	T13S	R11E	M	36	47		120	48		900		1948		07	24
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	37	23	10	120	43	15	000		1948			24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	37	22	29	120	47	40	000		1952			24
C2 5026	LODGEPOLE	6735	SEC 21	T15S	R30E	M	36	36		118	14		900		1968			54
C6 5098	LOLANE	2720	SEC 21	T30S	R33E	K	35	18	05	118	25	54	900		1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	36	59	02	120	50	45	013		1948			24
B0 5117	LOS BANOS FIELO STA	160	SEC 32	T10S	R10E	Q	37	00	54	120	53	55	900		1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	37	03	00	120	51	00	900		1873			24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	36	52	52	120	56	25	900		1932			24
B8 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E	M	37	01		120	56		900		1968			24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	35	37	00	119	41	17	900		1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	36	54	48	119	14	42	905		1960			10
B4 5160	LOWER KIBBY RIDGE	6500	SEC 22	T02N	R19E	M	38	01	00	119	53	00	900		1948			55
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	36	55	15	120	01	12	904		1952			20
B0 5236	MADERA	200	SEC 13	T11S	R18E	P	36	58		120	03		900		1950			20
C0 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	35	21	42	118	55	18	004		1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	37	20	31	119	19	45	905		1947			20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H	37	47		121	12		900		1964			39
C7 5338	MARICOPA	680	SEC 31	T12N	R23W	N	35	04	48	119	22	58	900		1911			15
C7 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E	35	04		119	24		000		1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	37	29	10	119	58	00	000		1909			22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	37	29	20	119	57	55	000		1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	37	26	30	119	49	37	000		1952			22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F	37	30	04	119	59	05	808		1943			20
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	36	20	24	120	24	54	000		1959	1970		10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	37	53	25	119	51	10	900		1930		21	55
B5 5460	MCDIERMID STA	2990	SEC 33	T02S	R17E	H	37	43	18	120	05	48	000		1959	1969		22
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E	35	18	20	119	37	20	000		1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	37	04	38	119	26	00	900		1948			10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	37	57	17	120	30	53	404		1955			10
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H	36	46	23	120	23	09	013		1941			10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M	36	39	05	120	27	20	806		1958			10
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G	36	47	15	120	22	12	900		1943			10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q	36	44	58	120	28	00	000		1878			10
B0 5532	MERCED FINE STN NO 2	169	SEC 25	T07S	R13E	M	37	17	43	120	29	13	900		1872			24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	37	17	17	120	21	09	000		1920			24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A	37	18	53	120	28	12	900		1938			24
C3 5669	MIL 5 NE	3400	SEC 18	T19S	R30E	C	36	16	40	118	46	15	900		1957			54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E	34	51	02	119	11	18	000		1966			15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E	M	36	26	00	118	35	00	900		1956	1969		54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	36	40	00	119	05	00	900		1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M	36	45	00	118	43	00	900		1957			10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	37	48	40	120	18	20	401		1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	37	38	48	121	00	02	900		1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	37	40	12	120	58	42	010		1959			50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	37	38	36	121	00	29	900		1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M	36	13	00	118	10	00	900		1940			54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E	M	35	06	15	118	58	00	001		1963	1969		15
C1 5832	MORANE CREEK	8840	SEC 27	T14S	R31E	M	36	43		118	34		903		1964			54
C3 5887	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	36	14	30	118	42	54	901		1963			54
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	37	17		119	06		004		1963	1969		10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	37	20	33	122	50	00	900		1889			50

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000		1953		15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	07	119	30	15	900		1904		20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000		1880	01	50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000		1961		20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808		1952		10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M	M	36	18	00	120	24	00	900		1949		10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C	M	35	16		119	16		806		1965		15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903		1938		15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	118	18	40	900		1931		10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	013		1896		50
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E	M		37	38	00	119	33	00	900		1947		22
B6 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900		1949		24
B8 6675	PANOCHE	1265	SEC 25	T15S	R10E	F	M	36	35	47	120	49	58	900		1922		35
B8 6676	PANOCHE 2 W	1320	SEC 21	T15S	R10E	M	M	36	36	30	120	52	48	407		1957		35
B0 6679-05	PANOCHE WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000		1949		10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M	M	38	03	00	119	40	00	900		1948		55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M	M	37	28	00	121	07	00	000		1912		50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900		1915		15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M	M	36	36	00	118	40	00	900		1956	1969	54
B8 6847	PEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	000		1954		24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M	M	38	12		119	59		905		1964		55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	12	003		1922		55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903		1949		10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905		1954		10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36	03	58	119	01	14	900		1893		54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36	04	50	119	04	14	000		1958		54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M	M	35	48	00	118	34	00	900		1953		54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M	M	35	48	00	118	38	00	900		1954		02 54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F	M	35	33	15	119	04	25	000		1967	1969	15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001		1913	1969	15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	30	04	013		1955		10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M	M	36	07	00	118	32	00	900		1955		54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M	M	36	59	00	118	43	00	900		1961		10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	05	000		1940		20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000		1957		22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37	22	37	119	49	58	000		1954		22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36	18	15	119	14	34	004		1888		54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E	M	M	36	37		119	27		808		1962		10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E	M	M	37	44	33	121	07	21	000		1963		39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36	25	58	119	51	36	000		1917		10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37	20	45	120	08	42	000		1957		22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M	M	36	04	24	118	38	12	901		1964		54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001		1914	1969	15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M	M	37	19	00	118	52	00	900		1953		10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M	M	35	58	00	118	21	00	900		1947		54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E	M	M	38	06	00	119	51	00	900		1948		55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900		1901	1969	15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000		1959		10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808		1958		10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J	M	36	36	25	120	11	15	000		1919		10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E	M	37	05	40	119	43	38	900		1934		20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J	M	36	36	28	120	11	18	808		1961		10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M	M	37	03		121	04		904		1959		24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P	M	37	06	07	120	42	04	013		1944		24
C0 7987-80	SANTIAGA RANCH	437	SEC 27	T12N	R22W	S	S	35	05	35	119	12	35	000		1963		15
B0 8316	SNELLING	259	SEC 04	T05S	R14E	M	M	37	31	24	120	26	18	000		1882	19	24
B0 8316-05	SNELLING 3 WNW	320	SEC 36	T04S	R13E	J	M	37	32	35	120	28	57	000		1949		24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R21E	A	M	37	50	00	119	30	00	900		1947		22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P	M	37	01	30	119	15	06	905		1960		10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M	M	37	59	00	120	23	00	900		1887		55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R	M	35	27	23	119	42	37	000		1938		15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E	M	37	58	45	120	38	48	000		1938		24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37	30	26	119	37	55	900		1941		22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35	56	02	119	38	46	000		1959		16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H	M	38	10	06	120	06	08	003		1921		55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D	M	36	09	47	118	42	21	900		1953		54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B	M	36	08	09	118	48	41	900		1924		54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q	M	36	11	35	118	39	23	900		1907		54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P	M	36	44	58	119	12	21	900		1961		10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L	M	38	08	23	120	22	10	900		1957		55

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ending	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E	M	36	56	00	118	35	00	900		1955			10
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	M	36	03	00	118	55	00	903		1959		54
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	M	37	05	12	119	12	36	000		1960		10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	M	35	08	34	119	27	53	900		1940		15
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	M	35	08	50	119	28	18	000		1954		15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	M	35	08	00	118	27	00	900		1876		15
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	M	35	08	05	118	26	31	900		1940		15
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H	S	35	01	35	118	44	38	900		1895		15
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	M	35	36	49	118	37	30	000		1968		15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	M	36	24	37	119	00	20	903		1959		54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	M	36	18	47	120	21	51	000		1959 1970		10
C2 8912	THREE RIVERS 6 SE	2200	SEC 36	T18S	R29E	C	M	36	22	00	118	51	00	900		1940		54
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	M	36	27	40	118	52	40	900		1909		54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	M	36	27	58	118	51	40	900		1940		54
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	M	36	37	57	120	14	13	000		1953		10
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	M	37	29	10	119	49	06	000		1965		22
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	M	36	54	05	119	17	16	905		1948		10
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	M	36	12	45	119	19	50	004		1919		54
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R30E	A	M	36	04	41	119	47	33	002		1953 1969		16
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	M	35	09	00	119	01	00	900		1948 1970		15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	M	36	09	42	118	42	22	004		1910		54
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	M	36	08	07	118	47	15	004		1910		54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E	M	36	22	00	118	17	00	900		1945		54	
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	M	37	52	30	120	36	12	404		1958		05
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R	M	37	57	55	120	13	55	000		1969		55
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E	M	37	53	00	119	20	00	900		1947		55	
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	M	37	29	28	120	51	00	900		1893		50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	M	37	27	52	120	54	39	000		1958		50
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D	M	37	28	22	120	59	30	000		1958		50
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	M	35	53		118	39		900		1965		54
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	M	35	32	00	119	16	40	906		1922		15
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E	M	37	22	00	118	59	00	900		1946		10	
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	M	35	50	24	119	05	12	004		1920		54
C1 9328	VIDETTE MEADOW	9500		T13S	R33E	M	36	45		118	25		901		1964		10	
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	M	36	19	45	119	17	18	900		1903		54
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	M	36	19	32	119	13	24	000		1959		54
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	M	35	25	17	118	32	35	000		1968		15
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	M	35	35	35	119	19	57	900		1899		15
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P	M	37	32		119	40		900		1941		22
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	M	35	40	00	118	18	00	900		1940		15
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	M	37	26	58	119	38	59	905		1961		20
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	M	36	13	38	119	59	40	900		1925		10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	M	37	33	00	121	12	00	000		1928		50
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E	M	37	01	48	118	55	06	903		1969		10	
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R	M	36	20	56	118	34	16	900		1959		54
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	M	36	42	05	118	55	56	815		1966		54
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	M	37	20	12	120	02	18	903		1950		22
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	M	35	36	10	119	45	10	000		1962		16
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E	M	37	00	40	118	58	20	003		1957		10	
C5 9754	WOFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	M	35	43	00	118	27	00	900		1894		15
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	M	35	42	02	118	50	34	808		1956		15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E	M	37	45	00	119	35	00	900		1904		22	

TABLE A-2
PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

- No record or record incomplete.
- * Amount included in the following measurement. Time distribution unknown.
- E Wholly or partially estimated.
- T Trace, an amount too small to measure.
- V Includes total from previous month.
- RB Record begins.
- RE Record ends.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fischer & Porter recording rain gages are used, these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1969												1970					TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP			
SAN JOAQUIN R BASIN																			
SAN JOAQUIN VAL FL BO																			
ATMATER CRAIG	-	0.04	0.00	0.22	1.06	1.41	1.18	RE											
CASTLE AFB	10.34	T	0.00	0.24	0.65	1.68	1.04	3.81	0.84	1.64	0.16	T	0.36	0.00	0.00	0.00	10.11		
DELTA RCH	8.48	0.00	0.00	0.45	0.64	0.93	0.80	3.33	0.47	1.30	0.28	0.00	0.00	0.00	0.00	0.00	8.13		
DENAIR 3 NNE	10.72	T	0.00	0.35	1.06	1.29	1.60	3.19	0.83	1.70	0.60	0.00	0.10	0.00	0.00	0.00	10.37		
DENAIR BARFIELD	11.64	0.00	0.00	0.35	1.06	1.61	2.21	2.95	1.06	1.28	0.98	0.00	0.14	0.00	0.00	0.00	11.24		
EL SOLYO RCH	8.85	0.00	0.00	0.37	0.78	0.78	1.02	3.52	0.60	1.25	0.50	0.00	0.03	0.00	0.00	0.00	8.48		
FANCHER RCH CAMP 3	-	0.06	0.00	0.13	RE	-	-	-	-	-	-	-	-	-	-	-	-		
FIREBAUGH 9 W	-	0.64	0.00	0.63	0.51	0.77	0.62	3.60	0.69	1.58	0.19	0.00	0.05	0.00	0.00	0.00	8.81		
GUSTINE 5 SW	9.65	0.00	0.00	0.85	0.61	0.86	0.77	3.87	1.61	0.88	0.16	0.00	0.04	0.00	0.00	0.00	8.80		
GUSTINE SNYDER																			
GUSTINE FOREMOST	9.83	0.00	0.00	0.92	0.57	0.85	0.86	3.90	1.27	1.26	0.17	0.00	0.03	0.00	0.00	0.00	8.91		
GUSTINE T 5 SW	9.57	0.00	0.00	0.54	0.60	0.72	1.18	2.82	1.65	0.98	0.29	0.00	0.09	0.00	0.00	0.00	9.13		
NILMAR	8.53	0.00	0.00	0.43	0.75	0.93	0.21	3.10	1.21	1.64	0.26	0.00	0.00	0.00	0.00	0.00	8.15		
KNIGHTS FERRY 2 SE	17.20	T	0.00	0.16	1.81	2.17	2.95	5.33	1.47	2.64	0.67	0.00	0.30	0.00	0.00	0.00	17.08		
LE GRAND	10.86	0.03	0.00	0.11	0.97	1.41	1.22	4.26	1.25	1.47	0.12	0.00	0.02	0.00	0.00	0.00	10.72		
LE GRAND 6 N	11.18	0.05	0.00	0.00	0.85	1.50	1.40	3.67	1.80	1.54	0.06	0.00	0.31	0.00	0.00	0.00	11.13		
LIVINGSTON CITY HALL	10.06	T	0.00	0.27	0.60	1.10	1.20	3.47	1.74	1.39	0.23	0.00	0.00	0.00	0.00	0.00	9.59		
LIVINGSTON 5 W	8.73	0.00	0.00	0.37	0.52	0.68	0.94	3.06	1.17	1.71	0.22	0.00	0.06	0.00	0.00	0.00	8.61		
LOS BANOS 5 S	8.90	0.00	0.00	0.17	0.78	0.75	0.53	2.68	0.58	0.97	0.12	0.00	0.00	0.00	0.00	0.00	8.37		
LOS BANOS FIELD STA	8.91	0.00	0.00	0.68	0.64	0.78	0.55	3.43	0.51	1.06	0.06	0.00	0.00	0.00	0.00	0.00	7.83		
LOS BANOS	9.20	0.00	0.00	1.49	1.46	0.71	0.72	2.99	0.55	1.25	0.93	0.00	T	0.00	0.00	0.00	7.71		
MADERA ID YARD	9.40	0.03	0.00	0.17	0.47	0.90	1.30	3.54	0.78	1.86	0.21	0.00	0.14	0.00	0.00	0.00	9.21		
MADERA	9.93	0.07	T	0.13	0.52	1.01	1.45	3.42	0.84	2.09	0.21	0.00	0.19	0.00	0.00	0.00	9.73		
MENDOTA 1 NNN	6.63	0.06	0.00	0.10	0.29	0.66	0.66	2.39	0.69	1.59	0.19	0.00	0.00	0.00	0.00	0.00	6.47		
MENDOTA DAM	7.28	0.03	0.00	0.18	0.27	0.67	0.83	2.52	0.64	1.86	0.26	0.00	0.02	0.00	0.00	0.00	7.07		
MENDOTA VDL FARMS	5.14	0.00	0.00	0.17	0.37	0.26	0.49	1.90	0.60	1.14	0.19	0.00	0.02	0.00	0.00	0.00	4.97		
MERCED FIRE STA 2	12.59	0.07	0.00	0.00	1.25	2.24	0.96	3.94	1.41	2.52	0.13	0.00	0.07	0.00	0.00	0.00	12.52		
MERCED FANCHER RCH	11.75	0.12	0.00	0.09	0.67	1.38	1.20	4.21	1.19	2.36	0.14	0.00	0.19	0.00	0.00	0.00	11.54		
MERCED 2	11.41	0.04	0.00	0.08	1.22	1.80	0.84	3.62	1.54	2.08	0.11	0.00	0.08	0.00	0.00	0.00	11.29		
MODESTO	10.82	T	0.00	0.43	0.82	1.09	1.56	4.12	0.61	1.63	0.51	0.00	0.05	0.00	0.00	0.00	10.39		
MODESTO KTRB	11.45	0.00	0.00	0.36	0.72	1.13	1.66	4.33	0.57	1.73	0.90	T	0.05	0.00	0.00	0.00	11.09		
MODESTO 2	9.58	0.00	0.00	0.35	0.82	0.95	1.41	3.73	0.48	1.56	0.22	0.00	0.06	0.00	0.00	0.00	9.23		
NEWMAN 2 NW	9.29	0.20	0.00	0.65	0.52	1.04	1.16	3.39	0.98	1.36	0.13	0.00	0.06	0.00	0.00	0.00	8.84		
ONDALO	13.53	0.00	0.00	0.67	0.89	1.73	2.02	4.59	1.11	2.27	0.52	0.00	0.13	0.00	0.00	0.00	13.36		
ORESTIMA	8.69	0.00	0.00	0.63	0.77	0.95	1.05	3.16	0.64	1.48	0.00	0.00	0.01	0.00	0.00	0.00	8.06		
PANOCHE WATER DIST	6.83	0.00	0.00	0.29	0.58	0.89	0.45	2.58	0.53	1.26	0.25	0.00	T	0.00	0.00	0.00	6.54		
PATTERSON	8.79	0.00	0.00	0.29	0.63	0.92	0.89	3.11	0.57	1.95	0.39	0.00	0.04	0.00	0.00	0.00	8.50		
PATTON CANAL CO HDQ	9.15	0.00	0.00	0.21	0.68	0.94	0.75	2.87	0.97	1.94	0.59	0.00	T	0.00	0.00	0.00	8.44		
RIPON	11.39	0.00	0.00	0.50	0.91	1.05	1.61	4.53	0.61	1.96	0.19	0.00	0.03	0.00	0.00	0.00	10.89		
SAN LUIS CANAL CO HQ	9.11	0.00	0.00	0.43	0.97	1.09	0.84	3.43	0.64	1.34	0.37	0.00	T	0.00	0.00	0.00	8.68		
SNELLING	14.01	0.19	0.00	0.20	1.18	1.88	1.85	4.02	1.69	2.31	0.38	0.00	0.31	0.00	0.00	0.00	13.62		
SNELLING 3 NNN	12.78	0.22	0.00	0.06	1.22	1.63	1.76	3.74	1.15	2.12	0.67	0.00	0.21	0.00	0.00	0.00	12.50		
SUNDA RANCH	8.00	0.00	0.00	0.00	0.38	0.50	0.37	6.33	1.20	1.18	0.00	0.00	0.00	0.00	0.00	0.00	7.43		
SOUTH DGS PALOS	8.29	0.00	0.00	0.29	0.80	1.00	0.82	2.85	0.83	1.43	0.27	0.00	0.00	0.00	0.00	0.00	8.05		
TURLOCK	9.58	T	0.00	0.51	0.78	1.22	1.22	3.20	0.76	1.59	0.23	T	0.07	0.00	0.00	0.00	9.21		
TURLOCK 5 SW	14.18	0.00	0.00	0.50	0.90	1.10	1.58	5.05	2.70	2.15	0.20	0.00	T	0.00	0.00	0.00	13.66		
TURLOCK 6 NNN	9.20	0.00	0.00	0.39	0.59	1.20	1.09	3.17	0.73	1.57	0.34	0.00	0.12	0.00	0.00	0.00	8.81		
WESTLEY	9.26	0.00	0.00	0.31	1.19	0.99	0.91	3.41	0.43	1.85	0.17	0.00	T	0.00	0.00	0.00	8.95		
STANISLAUS RIVER 83																			
ANGELES CAMP	36.52	0.00	0.00	0.11	3.14	3.32	6.48	14.38	2.62	3.24	1.89	T	1.34	0.00	0.00	0.00	36.49		
HUNTERS DAM	42.67	0.00	0.00	0.55	3.41	2.98	6.46	17.06	3.11	3.43	2.50	0.00	3.17	T	0.00	0.00	42.12		
BEAR VALLEY-ALPINE	-	0.50	0.00	0.62	4.85	1.58	-	14.16	-	2.28	3.27	T	5.11	0.00	0.00	0.00	-		
CALAVAS RANGER STA	51.80	0.00	0.00	0.66	5.20	3.23	9.40	19.88	4.32	3.52	3.45	0.00	2.14	0.00	0.00	0.00	51.19		
COLUMBIA	37.39	0.00	0.00	0.26	3.38	3.67	6.86	12.13	3.51	4.35	1.89	T	1.34	0.00	0.00	0.00	37.13		
COPPERHOLM																			
HUNTERS DAMS	26.95E	0.00E	0.00E	0.09E	2.55E	2.70	5.09	10.07	1.97	2.59	0.89	0.00	1.00E	0.00E	0.00E	0.00E	26.88E		
PINECREST STRAWBERRY	44.87	0.15	0.00	0.26	3.10	2.69	6.84	16.71	3.57	3.25	3.81	0.00	4.49	0.00	0.00	0.00	44.46		
PINECREST SUMMIT K S	44.85	0.06	0.00	0.33	2.99	2.78	6.73	17.34	3.60	3.47	3.55	0.00	4.00	0.00	0.00	0.00	44.46		
SPRING GAP FOREYAT	45.90	0.00	0.00	0.36	3.70	3.27	6.98	19.24	3.38	3.11	2.73	0.00	1.13	0.00	0.00	0.00	45.44		
STANISLAUS P N																			
TULOCK DAM	42.43	0.00	0.00	0.56	2.97	2.75	7.48	18.52	2.99	3.18	2.39	0.00	1.48	0.00	0.00	0.00	41.88		
	21.93	0.00	0.00	0.07	2.28	2.15	3.45	7.32	1.58	3.16	0.87	T	0.75	0.00	0.00	0.00	21.56		
TUOLUMNE RIVER 84																			
CHERRY VALLEY DAM	51.95	0.02	T	0.25	5.47	2.24	9.03	21.25	3.24	4.33	4.22	0.80	1.90	T	0.00	0.00	51.68		
DON PEDRO RESERVOIR	19.95	T	0.00	0.32	3.55	2.35	3.42	6.18	1.84	2.12	0.73	T	1.11	0.00	0.00	0.00	19.43		
EARLY INTAKE P N	34.26	0.13	T	0.18	3.84	2.22	4.38	12.60	2.50	3.48	2.46	0.00	2.47	0.00	0.00	0.00	33.95		
GROVELAND 2	34.91	0.00	0.00	0.26	2.89	2.87	5.81	11.32	4.18	3.28	2.41	0.00	1.89	0.00	0.00	0.00	34.65		
GROVELAND R S	37.56	0.00	0.00	0.08	4.02	2.94	5.10	14.33	3.66	3.21	1.88	T	2.34	0.00	0.00	0.00	37.48		
HETCH HETCHY	35.76	0.01	0.00	0.05	4.17	1.52	4.76	13.74	2.78	3.25	2.55	0.10	2.13	0.00	0.00	0.00	35.05		
HODGE WAGON	35.76	0.19	0.00	0.00	4.17	1.52	4.76	13.74	2.78	3.25	2.55	0.10	2.13	0.00	0.00	0.00	35.05		
LAKE ELEANOR	44.42	0.00	0.00	0.10	4.84														

TABLE A - 2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1969						1970								TOTAL OCT 1 TO SEPT 30	
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
JERSEYDALE G S	35.52	-	-	0.06	3.72	2.39	5.36	11.49	3.45	5.78	1.23	0.00	2.03	0.00	0.00	0.00	35.45
MARIPOSA	30.61	0.19	0.00	0.00	5.43	2.20	4.17	10.68	2.57	4.28	0.92	0.00	2.16	0.00	0.00	0.00	30.41
MARIPOSA REYNOLDS	30.72	0.06	-	0.08	3.39	2.37	4.13	10.35	2.52	4.64	0.93	0.00	2.22	0.00	0.00	0.00	30.55
MARIPOSA S	28.94	0.09	-	0.07	2.97	2.45	4.38	9.60	3.62	3.25	0.79	0.00	1.72	0.00	0.00	0.00	28.78
MC DIKINSD STA	-	-	-	-	RE	-	-	-	-	-	-	-	-	-	-	-	-
SO ENTRANCE YOSEMITE	42.52	0.07	3.63	0.19	5.00	2.15	5.62	15.84	4.41	5.24	2.09	T	1.88	T	0.00	0.00	42.23
WANDORA R S	37.48	0.08	0.04	0.27	3.16	1.48	4.25	14.87	3.58	3.79	1.98	0.00	1.72	0.00	0.00	0.00	37.09
YOSEMITE NAT PARK	36.90	0.15	0.01	0.08	4.64	1.66	5.92	14.18	3.02	4.03	1.74	T	1.55	0.00	0.00	0.00	36.74
FRESNO-CHOWCHILLA R B6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADAMSSEE 2 NW	27.40	0.10	0.13	0.12	2.55	1.26	3.77	10.28	3.42	2.95	1.13	0.00	1.69	0.00	0.00	0.00	27.05
CATREYS VAL BULL RUN R	21.62	T	T	0.05	1.98	2.21	2.82	6.92	1.91	3.32	0.50	0.00	1.91	0.00	0.00	0.00	21.57
CATREYS VAL STONHOUSE	21.53	0.02	0.00	0.06	1.80	2.40	3.71	6.59	2.54	2.34	0.32	0.00	1.75	0.00	0.00	0.00	21.45
COARSICOLD	23.64	T	0.00	0.12	1.55	1.80	2.86	7.66	2.33	4.14	1.01	0.00	1.53	0.00	0.00	0.00	23.52
DAUTON	12.64	0.00	0.00	0.08	0.83	0.94	1.71	4.38	1.42	2.73	0.10	0.31	0.14	0.00	0.00	0.00	12.56
HIDDEN VALLEY	29.30	0.19	0.04	0.06	2.46	1.86	3.37	10.22	2.20	5.80	1.01	T	2.09	T	0.00	0.00	29.01
MARIPOSA E ESE	30.54	0.11	0.05	T	3.32	1.85	3.71	11.06	2.90	4.46	0.96	T	2.12	T	0.00	0.00	30.38
GAHNHURST	27.42E	0.15E	0.00	0.00	1.83	1.53	2.89	11.98	2.28	4.24	1.20	0.00	1.32	0.00E	0.00E	0.00	27.27E
RAYMOND 3 SW	25.89	0.00	0.00	T	2.30	1.45	3.78	9.83	2.31	4.04	0.48	0.00	1.70	0.00	0.00	0.00	25.89
RAYMOND 10 NW	25.15	0.06	T	0.08	2.28	1.48	3.20	9.35	2.91	3.12	0.77	0.00	1.90	0.00	0.00	0.00	25.01
ROCKY VILLAGE	17.65	0.00	T	0.02	1.49	2.27	2.03	5.52	2.73	1.77	0.30	0.00	1.52	0.00	0.00	0.00	17.63
TRIANGLE-REDSHOD	32.79	T	T	0.05	4.11	1.87	3.83	11.02	1.99	4.28	1.08	T	1.76	0.00	0.00	0.00	32.74
WESTFALL R S	41.24	0.06	0.04	0.02	5.26	2.43	3.32	12.61	3.58	3.90	0.92	0.00	2.17	0.00	0.00	0.00	41.09
WHITE ROCK PRESTON	18.31E	0.02E	T	0.03E	1.68E	1.74	2.28	6.02	2.69	2.00	0.25	0.00	1.60E	0.00E	0.00E	0.00E	18.26E
SAN JOAQUIN RIVER B7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AUBREY 1 NW	-	-	-	-	-	-	-	-	-	1.79	0.63	0.00	0.81	T	0.00	0.00	-
BIG CREEK PH 1	30.70	0.55	0.00	0.33	1.92	2.46	4.31	11.07	2.72	3.11	3.14	0.00	1.09	0.01	0.00	0.00	29.83
BIG CREEK PH 2	28.03	0.22	0.00	0.40	1.84	2.13	3.53	10.57	3.36	2.98	2.46	0.00	0.54	0.00	0.00	0.00	27.41
BIG CREEK PH 3	21.12	0.03	0.00	0.44	1.55	1.80	2.86	7.66	2.46	3.00	1.06	0.00	0.76	0.00	0.00	0.00	20.94
BIG CREEK PH 8	26.21	0.20	0.00	0.28	2.12	2.14	3.97	9.74	2.75	2.04	2.35	0.00	0.62	0.00	0.00	0.00	25.73
CRANE VALLEY PH	34.38	0.04	0.00	0.01	2.94	2.00	4.41	12.60	4.34	4.50	1.96	0.00	1.58	0.01	0.00	0.00	34.34
FLORENCE LAKE	20.50E	1.64	0.35	0.26	1.22	0.87	2.82E	7.39E	2.03	1.93	1.42	0.00	0.57E	0.14	T	0.00	18.39E
FRANIT GOVERNMENT CAMP	12.69	0.02	0.00	0.03	0.45	0.92	2.01	4.43	1.18	2.95	0.17	0.00	0.53	0.00	0.00	0.00	12.64
FRUIT STILLWELL	18.94E	0.00E	0.00	0.00	0.04	1.76	3.17	1.23	1.29	3.90	0.52	0.00	1.16	0.00	0.00	0.00	18.94
HUNTINGTON LAKE	37.52	0.52	0.01	0.36	2.79	2.43	5.29	13.04	2.90	4.05	4.90	0.00	1.23	0.00	0.00	0.00	36.63
MEADOW LAKE	23.38	0.02	T	0.42	1.21	2.07	4.16	8.12	2.18	3.37	1.10	0.00	0.73	T	0.00	0.00	22.94
MT GIVENS	-	-	-	-	RE	-	-	-	-	-	-	-	-	-	-	-	-
NORTH FORK R S	30.24E	0.48	0.02	0.07	2.73E	1.78	4.63	11.13	2.27	4.41	2.01	0.00	1.11	0.00	T	0.00	30.07E
SAN JOAQUIN EXP RGE	16.12	0.28	0.09	0.04	0.68	1.18	2.60	5.72	1.20	2.24	0.21	0.00	0.98	0.00	0.00	0.00	15.71
SAN JOAQUIN WESTSIDE B8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OEL PUERTO RO CAMP	17.24E	0.00	0.00	0.65	0.72	0.93	2.29E	7.50E	1.60E	3.06E	0.48	0.00	0.01	0.00	0.00	0.00	16.59E
IDEA	17.42	0.02	0.00	0.46	0.33	0.47	0.67	3.61	1.57	3.37	0.17	0.00	0.02	0.00	0.00	0.00	16.94
LITTLE PANOCH DET RES	6.59	0.00	0.00	1.45	0.56	0.50	0.36	2.16	0.55	0.79	0.22	0.00	0.00	0.00	0.00	0.00	5.14
LOS BANOS ARBURIA RCH	7.10	0.00	0.00	0.86	0.62	0.72	0.61	2.91	0.77	0.47	0.10	0.00	0.02	0.00	0.00	0.00	6.24
LOS BANOS DET RES	8.11	0.00	0.00	1.27	0.93	0.69	0.40	3.01	0.65	0.81	0.06	0.00	0.02	0.00	0.00	0.00	6.84
PACHICO PASS	12.65	0.00	0.00	0.28	1.19	0.94	1.70	5.54	1.37	1.34	0.21	0.00	0.08	0.00	0.00	0.00	12.37
PANOCH	7.71	T	T	1.25	0.35	0.34	0.54	3.41	0.65	1.10	0.07	0.00	T	0.00	0.00	0.00	6.46
PANOCH 2 W	8.92	T	T	0.90	0.38	0.29	0.86	4.24	0.82	1.26	0.17	0.00	T	0.00	0.00	0.00	8.02
PEPPER RCH	21.93	0.00	0.00	0.72	1.48	0.54	3.21	10.17	2.09	2.47	1.07	0.00	0.18	0.00E	0.00E	0.00E	21.21E
SAN LUIS DAM	9.51	0.00	0.00	0.77	0.98	0.72	0.78	4.19	0.65	1.19	0.15	0.00	0.08	0.00	0.00	0.00	8.74
TULARE LAKE BASIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TULARE LAKE VAL FLOOR CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANGIOLA	5.52	0.13	0.00	0.03	0.08	0.39	0.47	1.14	1.22	1.63	0.43	0.00	0.00	0.00	0.00	0.00	5.36
ARVIN	3.91	0.01	0.00	0.00	0.00	0.60	0.35	0.74	1.12	0.85	0.24	0.00	0.00	0.00	0.00	0.00	3.90
AVENAL ORCHARD	5.07	0.15	0.00	0.10	0.06	0.30	0.20	1.68	1.46	0.98	0.14	0.00	T	0.00	0.00	0.00	4.82
BAKERSFIELD 1 W	-	T	0.00	0.00	RE	-	-	-	-	-	-	-	-	-	-	-	-
BAKERSFIELD WB AF	3.35	T	T	T	0.42	0.16	0.57	1.56	0.48	0.48	0.16	0.00	T	T	0.00	0.00	3.35
BELLEVUE	-	T	0.00	0.00	0.00	0.00	0.79	RE	-	-	-	-	-	-	-	-	-
ELACONVILLE CORNER	4.15E	0.00	0.00	0.00	0.05	0.79	0.16	1.00	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	0.00	4.15E
BUENA VISTA RCH	2.72E	0.30E	0.00E	0.00E	0.00	0.52	0.04	0.57	1.09	0.20	0.00	0.00	0.00	0.00	0.00	0.14	2.56
BUENA VISTA RCH M&L 2	3.14E	0.30E	0.00E	0.00E	0.00	0.36	0.08	0.91	1.22	0.27	0.00	0.00	0.00	0.00	0.00	0.00	2.84
BUTTEWILL	3.82	0.12	0.00	T	T	0.61	0.26	1.02	0.79	0.85	0.17	0.00	0.00	T	0.00	0.00	3.70
CANTUA RANCH	4.47	0.00	0.00	0.00	0.19	0.43	0.21	1.67	0.73	1.44	0.07	0.00	0.00	0.00	0.00	0.00	4.46
CAPATHURS 4 E	6.88	T	0.00	0.04	0.06	0.54	0.89	2.21	1.48	1.53	0.03	0.00	0.10	0.00	0.00	0.00	6.84
CITRUS	-	0.03	0.00	0.00	0.00	1.40	1.10	RE	-	-	-	-	-	-	-	-	-
COLINGA	4.77	0.90	0.00	0.11	0.02	0.48	0.16	1.31	1.50	1.10	0.09	0.00	T	0.00	0.00	0.00	4.66
COLINGA 1 SE	4.51	0.00	0.00	0.05	0.03	0.51	0.23	1.18	1.19	1.15	0.14	0.00	0.03	0.00	0.00	0.00	4.46
COLINGA CDP	4.41	0.01	0.00	0.11	0.02	0.47	0.14	1.20	1.41	2.00	0.05	0.00	0.00	0.00	0.00	0.00	4.29
COIT RANCH HQ	6.21	0.00	0.00	0.32	0.45	0.50	0.43	2.23	1.13	1.15	0.00	0.00	0.00	0.00	0.00	0.00	5.89
CORCORAN TRIC DIST	5.55	0.09	0.00	0.13	0.06	0.40	0.34	1.04	1.02	1.29	0.28	0.00	0.00	T	0.00	0.00	5.33
CORCORAN EL RICO 1	5.48	0.23	0.00	0.04	0.08	0.42	0.58	0.85	1.00	2.06	0.22	0.00	0.00	0.00	0.00	0.00	5.21
CORCORAN EL RICO 33	-	-	-	-	RE	-	-	-	-	-	-	-	-	-	-	-	-
DELANO	4.2E	T	0.00	T	0.04	0.48	0.37	0.88	0.89	1.26	0.34	0.00	0.02	0.00	0.00	0.00	4.28
DELANO GOVT CAMP	6.68	T	0.00	T	0.04	0.40	0.32	0.85	0.92	1.85	0.29	0.00	0.01	T	0.00	0.00	6.68
DEVILS DEN SIF	5.57	0.35	0.00	0.04	0.05	0.73	0.19	0.99	0.94	1.88	0.11	0.00	0.90	0.00	0.00	0.00	4.98
OLIGORIO	4.02	T	0.00	T	T	0.46	0.34	0.87	1.28	0.81	0.26	0.00	T	T	0.00	0.00	4.02

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1969												1970							TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP					
HANFORD REFINERY	6.45	1.10	0.00	0.15	0.00	0.44	0.00	1.61	.56	2.20	.20						6.2				
HOMELAND DIST SEC 9					RE	.44															
HURON	4.69	0.00	0.00	0.10	0.00	0.44	0.11	1.36	.99	1.4	T	0.00	0.00	0.00	0.00	T	4.69				
IVANHOE RD	9.50	0.02	0.00	0.32	0.06	.74	1.14	4.04	.11	2.36	0.12	0.00	0.00	0.00	0.00	3.00	9.46				
KETTLEMAN CITY	4.96	0.23	0.02	0.22	0.03	.33	1.28	1.13	1.02	1.64	0.14	0.00	0.00	0.00	0.00	0.00	4.59				
KETTLEMAN HILLS	4.07E	0.00	0.00	0.00	0.00	0.22	0.22	1.39	.51	1.47	0.10E	0.00	0.00	0.00	0.00	0.00	3.99E				
KETTLEMAN STATION	4.15E	0.01	0.00	0.04	0.06	0.40E	0.34	1.10	1.16	.97	0.07	0.00	0.00	0.00E	0.00	0.00	4.10E				
LINDSEY	9.52	0.05	0.00	0.15	0.14	1.09	0.64	3.25	1.67	1.61	0.72	0.00	T	0.05	0.00	0.00	9.37				
LOST HILLS	4.46	0.00	0.00	0.00	0.00	0.35	0.30	0.64	1.96	0.63	.75E	0.00	0.00	0.00	0.00	0.00	4.44				
MAGUDEN	3.95	0.00	T	0.00	0.01	.62	.11	1.06	1.33	.61	0.21	0.00	0.00	0.00	0.00	0.00	3.91				
MARICOPA	3.56	3.00	0.00	0.00	0.08	0.43	.31	0.95	.36	.58	0.85	0.00	0.00	0.00	0.00	0.00	3.56				
MENDOTA MARIETTA RCH	6.08	0.03	T	0.25	0.38	0.58	0.20	2.28	1.90	1.14	0.02	T	0.00	T	0.00	0.00	5.80				
MOODY RCH	3.17	0.00	0.00	0.00	0.00	0.48	0.20	RE													
NORTH BELRIDGE	5.36	0.00	0.00	0.00	0.02	0.37	0.20	.54	1.48	0.46	0.03	0.00	0.00	0.00	0.00	0.00	3.11				
GILFILLI FS					T	0.41	.19	1.57	1.28	1.47	0.23	0.00	0.00	0.00	0.00	0.00	5.05				
OLD RIVER 3 M	3.46	0.33	0.00	0.00	0.00	0.48	0.24	0.77	1.06	0.45	0.13	0.00	0.00	0.00	0.00	0.00	3.13				
ORANGE COVE	9.51	0.08	0.00	0.00	0.13	0.28	1.44	4.07	0.92	2.28	0.31	0.00	0.00	0.00	0.00	0.00	9.43				
PORTERVILLE	7.59	0.05	0.00	0.00	0.14	0.81	0.86	2.61	1.95	1.49	0.45	0.00	0.00	0.00	0.00	0.00	7.47				
PORTERVILLE 3 M	6.83	0.10	0.00	0.19	0.14	0.91	0.74	2.06	0.88	1.44	0.37	0.00	0.00	0.00	0.00	0.00	6.54				
POD CREEK	-	-	-	-	RE																
POD RANCH	-	0.30	0.00	0.00	0.00	0.39	0.36														
RECTOR	8.26	0.23	0.00	0.05	0.05	0.83	0.66	2.91	1.88	1.39	0.26	0.00	T	0.02	0.00	0.00	8.00				
REEDLEY MFD	8.61	0.01	0.00	T	0.08	0.64	1.02	3.70	1.74	1.28	0.10	0.00	0.00	T	0.00	0.00	8.80				
RIVERDALE	7.30	0.22	0.00	0.26	0.03	0.62	0.74	2.36	1.64	1.18	0.23	0.00	0.00	0.00	0.00	0.00	6.82				
ROSEDALE		0.00	0.00	0.00	0.00	0.52	0.00	RE													
SAN ENICIGEO RCH	-	0.00	0.00	0.00	0.00	0.00	0.00	RE													
SANGER 1 NE	10.64	0.07	0.00	0.15	0.06	0.81	1.59	4.44	0.99	2.23	0.15	0.00	0.15	0.01	0.00	0.00	10.43				
SANGER R S	10.91	0.83	0.00	0.00	0.09	0.83	1.47	4.23	0.96	2.22	0.16	0.00	0.12	0.01	0.00	0.00	10.08				
SAN JOAQUIN	6.32	0.08	T	0.00	T	0.19	0.75	0.63	2.40	0.62	1.39	0.25	0.00	0.02	0.00	0.00	6.24				
SAN JOAQUIN MFD	4.69E	0.00	0.00	0.10	0.13	0.78	0.38	1.18	0.63	1.29	0.20E	0.00	T	0.00	0.00	0.00	4.59E				
SANTIAGA RCH	4.17	0.13	0.00	0.00	0.15	0.68	0.61	.62	1.00	0.75	0.23	0.00	0.00	0.00	0.00	0.00	4.04				
SOUTH BELRIDGE	3.33	0.11	0.00	0.00	0.02	0.53	0.32	.075	1.27	0.29	0.04	0.00	0.00	0.00	0.00	0.00	3.22				
SOUTH LAKE FARM HQ	5.18	0.27	0.13	0.05	0.01	0.42	0.28	0.93	1.25	1.71	0.13	0.00	0.00	0.00	0.00	0.00	4.73				
TEJON RANCHO	0.84	0.07	0.00	0.00	T	0.88	1.25	0.78	2.14	2.64	1.08	0.00	0.00	T	0.00	0.00	8.77				
TRANQUILITY CLOZT	6.35	0.04	0.00	0.11	0.27	0.83	0.42	2.33	1.75	1.49	0.11	0.00	T	0.00	0.00	0.00	6.26				
TULARE	6.70	T	0.00	0.08	0.10	0.45	0.61	2.15	1.61	1.43	0.27	0.00	0.00	0.00	0.00	0.00	6.62				
TULARE DIST SEC 27	-	-	-	-	RE	-	-	-	-	-	-	-	-	-	-	RE	-				
TULFIELF	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
U S COTTON FIELD STA	3.84	0.17	0.00	0.00	0.07	0.37	0.17	0.59	1.18	1.17	0.12	0.00	0.00	0.00	0.00	0.00	3.68				
VESTAL	5.78	0.00	0.00	0.00	0.06	0.10	0.58	1.49	1.43	1.71	0.45	0.00	0.00	0.00	0.00	0.00	5.72				
VISALIA	7.97	0.08	0.00	0.00	0.10	0.60	0.77	3.08	1.20	1.90	0.24	0.00	T	0.01	0.00	0.00	7.90				
VISALIA 4 E	8.37	0.20	0.00	0.12	0.14	0.68	0.83	2.95	1.75	1.43	0.25	T	0.02	0.02E	0.00E	0.00E	8.07E				
WASCO	4.39	0.20	0.00	T	0.00	0.40	0.24	0.77	1.38	1.28	0.20	0.00	T	0.03	0.00	0.00	4.22				
WESTHAVEN	4.55	0.19	0.00	T	0.03	0.37	0.32	1.04	1.41	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.36				
WILBUR DITCH	5.86	0.23E	0.15E	0.06E	0.03	0.42	0.22	1.06	1.27	1.87	.07	0.00	0.00	0.00	0.00	0.00	4.94				
KINGS RIVER C1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ACADEMY	12.38	0.11	0.00	0.00	0.50	0.98	1.90	4.59	2.05	1.42	3.38	0.00	0.45	0.00	0.00	0.00	12.27				
BALCH POWER HOUSE	27.00	0.10	0.00	0.10	4.11	1.90	2.20	9.80	3.40	2.71	1.40	0.00	0.60	0.10	0.00	0.00	26.90				
BENNER RANCH	22.91	0.25	T	0.30	1.25	1.73	4.23	7.69	1.50	4.71	0.72	0.00	0.46	0.00	0.00	0.00	22.79				
ELIACAN	17.52	0.06	0.00	0.37	2.00	1.49	2.68	5.19	2.27	2.33	0.26	0.00	0.67	0.00	0.00	0.00	17.09				
GRANT GROVE	33.06	0.35	0.13	0.15	1.92	1.76	4.34	13.68	2.31	5.49	2.50	0.00	0.75	0.61	0.00	0.00	33.06				
PINE FLAT DAM	14.76	0.14	0.00	0.18	0.29	1.06	1.67	6.26	1.41	2.88	0.31	0.00	0.37	0.01	0.00	0.00	14.65				
PINEHURST	24.94	0.17	0.00	0.31	1.47	1.91	3.51	9.31	1.70	4.98	1.05	0.00	0.44	0.33	0.00	0.00	24.79				
SQUAM VALLEY FR	16.24E	0.10	0.00	0.00	0.31	1.02E	2.00E	6.95	1.80	4.26	0.52	0.00	0.00	0.00	0.00	0.00	16.23E				
TRIMMER R S	21.94	0.02	0.30	0.16	0.83	1.56	3.27	8.77	1.52	3.56	0.74	0.00	.51	0.02	0.00	0.00	21.78				
WISHON LAKE	34.64E	0.31	0.04E	0.13	3.49	1.65	4.21	11.66E	2.37	5.72	3.89	0.00	1.17	0.41	0.00	0.00	34.57E				
KAWAH RIVER C2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ASH MOUNTAIN	21.72	0.20	0.01	0.36	0.87	1.15	2.78	9.47	1.76	3.78	1.07	0.00	0.27	0.02	0.00	0.00	21.37				
BADGER	20.77E	0.13	0.00	0.12	1.10	1.54	2.88	8.29	2.58	3.15	0.53	0.00	0.45E	0.00	0.00	0.00	20.52E				
KAWAH PH 3	21.60	0.30	0.04	0.32	1.06	1.39	2.65	8.89	2.36	3.33	1.02	0.00	.24	0.03	0.00	0.00	21.37				
LEWON COVE	11.61	0.10	0.00	0.14	0.40	0.87	1.58	4.14	1.92	2.08	0.28	0.00	.10	0.05E	0.00	0.00	11.42E				
LODGEPOLE	34.41	0.29	0.09	0.17	1.64	1.42	4.20	15.93	1.83	5.99	2.27	0.00	0.58	0.11	0.00	0.00	33.97				
MIRAMONTE HONOR CAMP	19.60	0.13	T	0.14	0.67	1.56	3.11	7.64	1.48	3.74	0.66	0.00	.47	0.21	0.00	0.00	19.54				
TERMINUS DAM	11.96	0.17	0.00	0.19	0.20	0.84	1.51	4.38	1.26	3.01	0.32	0.00	.08	.02	0.00	0.00	11.62				
THREE RIVERS 6 SE	16.87	0.18	0.00	0.18	0.73	1.36	2.39	7.19	1.80	1.94	0.70	0.00	.11	0.00	0.00	0.00	16.51				
THREE RIVERS PH NO 1	17.44	0.11	0.06	0.09	0.57	1.19	2.30	7.25	1.80	3.31	0.99	0.00	.117	0.00	0.00	0.00	17.38				
THREE RIVERS PH NO 2	18.52	0.23	0.00	0.12	0.76	1.32	2.16	7.75	1.76	3.27	0.98	0.00	.17	0.00	0.00	0.00	18.17				
WHITTAKER FOREST	-	0.37	0.04	0.12	-	-	-	-	-	-	1.17	T	.71	.18	0.00	0.00	-				
TULE RIVER C3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CAMP NELSON	26.57	0.22	0.11	0.00	0.97	1.11	4.09	12.21	2.20	5.01	0.65	0.00	0.00	-	-	-	-				
DEER CREEK RCH	0.18	-	-	-	RE	-	-	-	-	-	-	-	-	-	-	-	-				
MILD S NE	25.16	0.24	0.05	0.34	0.71	1.36															

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1969						1970						TOTAL OCT 1 TO SEPT 30		
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP
KERN RIVER PH NO 3	5.66	1.32	T	T	0.11	0.60	0.41	1.67	1.53	1.56	1.34	0.00	0.12	0.00	0.00	0.00
ONYX	5.90	0.48	0.00	0.00	0.00	0.58	0.03	2.25	1.06	1.44	0.00	0.00	0.06	0.00	0.00	0.00
TEN HIGH NINE	21.07	0.46	0.00	0.00	0.51	1.35	2.04	9.60	2.10	2.89	1.88	0.08	0.24	0.00	0.00	0.00
WELDON 1 NW	8.39E	1.63	0.00	0.00	0.05	0.49	0.00	2.16	1.15	0.85	2.00E	0.00	0.06	0.00	0.00	0.00
WOLFORD HEIGHTS	8.79	0.30	T	0.35	0.08	0.45	0.46	3.89	1.44	1.43	0.25	0.00	0.14	0.03	0.00	0.00
TEHACHAPI MOUNTAINS C6																
CHUCAPATE R S	12.00E	0.10	0.10	0.00	0.00	1.20	2.00E	1.40	4.90	1.40	1.20	0.00	0.00	0.50	0.00	0.00
CUMINGS VALLEY 2	8.99	0.06	0.00	0.05	0.04	0.91	0.45	3.60	1.13	2.17	0.49	0.00	0.09	0.04	0.30	0.00
KEENE	12.53	0.07	0.00	0.01	0.06	0.58	2.04	3.84	2.02	2.62	1.29	T	0.00	0.00	0.00	0.00
LESEC	12.22	0.07	0.00	0.00	0.17	0.84	0.81	1.38	4.00	3.34	1.59	0.00	0.02	0.03	0.00	0.00
LOBLINE	10.40E	0.34	0.00	0.05	0.07	0.76	1.21	3.71	1.60	2.16	0.98E	0.00	0.00	0.00	0.00	0.00
MIL POTRERO	18.75	0.19	0.09	T	0.98	1.76	3.70	2.46	6.71	2.05	0.79	T	0.02	T	T	0.00
PATTINAY	6.50	0.31	0.00	0.00	0.19	0.48	1.15	0.76	1.61	1.60	0.40	0.00	T	T	0.00	0.00
TEHACHAPI	8.26	0.26	0.00	0.12	0.06	0.75	0.50	2.37	3.24	0.25	0.71	T	T	T	0.00	0.00
TEHACHAPI AP	6.50E	0.19	0.00	0.15	0.05	0.69	0.25	1.64	2.34	0.81	0.35E	0.00	0.03	0.05	0.00	0.00
WALKER BASIN	14.64	0.32	0.00	0.00	0.14	0.86	1.11	6.85	1.70	2.47	1.12	0.00	0.07	0.10	0.00	0.00
TULARE L BAS WESTSIDE C7																
ANNETTE	-	0.00	0.00	0.07	0.00	0.55	0.45	2.09	-	-	-	-	-	-	-	-
AVENAL 8 SW	7.08	0.17	0.00	0.19	0.18	0.28	0.47	2.19	1.22	2.38	0.00	0.00	0.00	0.00	0.00	0.00
AVENAL 6 SSW	6.74E	0.08	0.00	0.10	0.22E	0.34	0.42	2.52	0.87	2.11	0.08	0.00	T	0.00	0.00	0.00
CHICO RANCHO	6.50	0.10	0.00	0.26	0.21	0.31	0.28	2.33	1.63	1.34	0.04	0.00	T	0.00	0.00	0.00
CHILANE TWISSELMAN	6.37	0.10	0.00	0.04	0.15	0.45	0.38	1.81	1.31	2.13	0.00	0.00	0.00	0.00	0.00	0.00
COALINGA ROBERTS RCH	8.66	0.00	0.00	0.24	0.21	0.45	0.54	2.77	1.05	3.40	0.00	0.00	0.00	0.00	0.00	0.00
COALINGA 14 NW	11.80	0.00	0.00	0.84	0.50	0.79	0.85	3.63	2.41	2.71	0.07	0.00	T	0.00	0.00	0.00
DOMENGINE RCH	5.61E	T	0.00	0.15	0.08	0.68	0.23	1.98	1.21	1.28	T	0.00	0.00E	0.00E	0.00E	0.00E
DOMENGINE SPRINGS	7.09	0.00	0.00	0.00	0.00	0.70	0.27	2.93	1.84	1.35	0.00	0.00	0.00	0.00E	0.00E	0.00E
FELLOWS	3.57	0.00	0.00	0.01	T	0.31	0.38	0.77	1.31	0.60	0.19	0.00	0.00	0.00	0.00	0.00
MARICOPA F S	3.43	0.58	0.00	0.02	0.01	0.09	0.41	0.71	0.81	0.80	0.00	0.00	0.00	0.00	0.00	0.00
MARTINEZ SPRINGS	7.34E	0.00E	0.00E	0.00E	0.00	0.73	0.21	3.05	1.75	1.60	0.00	0.00	0.00	0.00E	0.00E	0.00E
MC KITTRICK F S	3.77	0.80	0.00	T	T	0.24	0.35	0.90	0.76	0.70	0.02	0.00	0.00	0.00	0.00	0.00
TAFT	3.15	0.20	0.00	0.00	0.00	0.42	0.31	0.51	1.04	0.51	0.16	0.00	0.00	0.00	0.00	0.00
TAFT KTRK	3.28	0.18	0.00	T	0.02	0.32	0.35	0.64	0.69	0.92	0.16	0.00	0.00	T	0.00	0.00
THIRTY-TWO CORRAL	7.05E	0.00E	0.00E	0.00E	0.00	0.65	0.71	2.85	1.54	1.30	0.00	0.00	0.00	0.00E	0.00E	0.00E

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1969-70 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	8- 6-69	7- 8-70	38.55
LAKE ALPINE	DEPT OF WATER RESOURCES	8- 6-69	7- 8-70	71.40
TUOLUMNE RIVER B4				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	8-26-69	9-15-70	53.34
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	10- 1-69	9-17-70	33.13
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	9- 9-69	9-18-70	55.26
LOWER KIBBY RIDGE	HETCH HETCHY WATER SUPPLY	10-11-69	9- 9-70	60.14
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	9-29-69	9-16-70	54.28
SACHS SPRINGS	HETCH HETCHY WATER SUPPLY	8- 7-69	9- 9-70	61.24
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	8- 5-69	7- 7-70	29.40
MERCED RIVER B3				
OSTRANDER LAKE	NATIONAL PARK SERVICE	8- 8-69	7-15-70	46.20
SNOW FLATS	DEPT OF WATER RESOURCES	8- 5-69	7- 7-70	53.60
SAN JOAQUIN RIVER B6				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	8- 4-69	7- 6-70	42.75
CLOVER MEADOW	DEPT OF WATER RESOURCES	8- 4-69	7- 6-70	40.90
KAISER MEADOW	SO CALIF EDISON COMPANY	6-26-69	10- 6-70	39.09
MAMMOTH POOL	SO CALIF EDISON COMPANY	6-29-69	10- 7-70	29.95
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	7-31-69	10- 7-70	33.30
VERMILION VALLEY	SO CALIF EDISON COMPANY	6-26-69	10- 5-70	22.32
TULARE LAKE BASIN C0				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	7-22-69	9-14-70	21.05
DUSY BENCH	U S CORPS OF ENGINEERS	9-11-69	9-12-70	23.16
MORAIN CREEK	U S CORPS OF ENGINEERS	9-10-69	9-16-70	24.15
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-11-69	9-15-70	35.85
STATE LAKES	U S CORPS OF ENGINEERS	9-11-69	9-15-70	27.20
SUMMIT MEADOW	DEPT OF WATER RESOURCES	10- 6-69	7- 9-70	37.84
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-10-69	9-16-70	29.65
WEST WOODCHUCK	FRESNO STATE COLLEGE	10- 8-69	6-26-70	31.81
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	7-10-69	8-10-70	37.90
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	7-23-69	9-17-70	35.70
HOCKETT MEADOW	U S CORPS OF ENGINEERS	9-12-69	8-11-70	34.70
MINERAL KING	U S CORPS OF ENGINEERS	9-12-69		RE
PEAR LAKE	U S CORPS OF ENGINEERS	9-12-69		RE
GIANT FOREST	U S CORPS OF ENGINEERS	7-23-69	9-16-70	35.55
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-12-69	8-11-70	28.10
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	7- 9-69	8-27-70	37.25
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	7- 7-69	8-27-70	34.00
ROGERS CAMP	U S CORPS OF ENGINEERS	7- 9-69	8-27-70	27.00

RE Record ends.

TABLE A-3 (Cont.)

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1969-70 Season		
		Measurement Period		Precipitation in Inches
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	9-12-69	8-11-70	24.35
CRABTREE MEADOW	U S CORPS OF ENGINEERS	9-20-69	9-11-70	19.98
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	7- 8-69	8-26-70	32.05
MONACHE MEADOW	U S CORPS OF ENGINEERS	9-29-69	9-16-70	12.95
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	7- 8-69	8-24-70	37.45
QUAKING ASPEN	U S CORPS OF ENGINEERS	7- 8-69	8-26-70	35.65
ROUND MEADOW	U S CORPS OF ENGINEERS	9-16-69	8-25-70	28.60
TUNNEL R S	DEPT OF WATER RESOURCES	9-26-69	9-16-70	17.76
WET MEADOW	U S CORPS OF ENGINEERS	9-12-69	8-12-70	30.20
TULARE LAKE BASIN WESTSIDE C7				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	7-31-69	5- 8-70	10.64

TABLE A-4
EVAPORATION DATA

The definition of terms and the abbreviations used in this table follows:

Evap	The total amount of water evaporated from the pan for the month.
Wind	The amount of movement of air over the pan in miles for the month.
Av Max	Arithmetical average of daily maximum water temperature for the month.
Av Min	Arithmetical average of daily minimum water temperature for the month.
-	No record.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

Wind and water temperature data are not available at all evaporation stations.

TABLE A-4
EVAPORATION DATA

EVAPORATION IN INCHES
WIND MOVEMENT IN MILES
WATER TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		TOTAL JULY 1 TO JUNE 30	1969							1970							TOTAL OCT 1 TO SEPT 30	
			JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		SEP
SAN JOAQUIN R BASIN																		
SAN JOAO VAL FL BO																		
KNIGHTS FERRY 2 SE	EWAP	67.60E	12.06	11.25E	7.72E	4.41	1.05E	9.1E	1.30E	1.30E	1.43	5.07	8.07E	9.00E	12.50E	11.14	8.36	68.27E
	WIND	3101E	693	640	516	478	215E	365	470	181	360	538	704E	750E	943	914	832	6457E
LOS BANOS FIELD STA	EWAP	95.93E	16.05	14.44E	9.63	5.06	2.16E	1.22E	1.32E	2.29E	6.01E	8.61E	13.44E	14.65E	17.51	15.14	11.63	100.90E
	WIND	29861E	3516	2328E	2115	2065	952E	143E	1704E	1306	2284E	3012	4168E	4318E	3804	3475	2452	13633E
MADERA I D	EWAP	92.03E	14.56	12.61	10.74	5.60	2.28	1.42	1.64E	2.23E	5.32E	8.09	13.34E	14.20E	16.09	15.08	10.49	95.78E
	WIND	20126E	1805	1240	1447	1373	685	1130	1441E	1259E	1740E	2440	2717E	2849E	2308	2291	1645	21698E
WESTLEY	EWAP	82.78	11.29	10.84	7.54	5.00	2.24	2.18	1.60	2.76	7.21	9.24	11.47	11.41	12.25	9.55	9.07	83.9E
TUOLUMNE RIVER B4																		
DON PEDRO RES	EWAP	78.36E	14.07	12.68	10.05	4.15	2.00	1.33E	1.63	2.10	4.34	5.91	9.92	10.18	14.11	12.93	10.32	78.92E
FRESNO-CHONCHILLA R B6																		
CATHEYS VAL BULL RUN RU	EWAP	71.47	11.22	11.72	8.82	4.55	1.77	1.16	1.09	2.14	3.89	5.31	9.04	9.26	13.86	12.94	10.20	75.17
	WIND	10555	1068	795	785	871	594	941	1012	701	1065	1094	841	788	997	1147	983	11034
SAN JOAQUIN RIVER B7																		
FRONT GOVERNMENT CAMP	EWAP	77.51	12.97	12.00	8.81	4.90	2.53	1.56	1.52	2.16	4.10	5.81	10.01	11.14	14.08	12.78	9.14	79.73
	WIND	10306E	1053	809	636	650E	930	1243	1495	1259	1513	1475	1619	1643	1584	1501	1295	14918E
	AV MAX		91.7	90.7	85.9	69.4	61.0	52.0	51.6	60.5	67.0	70.6	84.1	89.5	94.6	92.2	85.0	
	AV MIN		64.3	63.7	60.7	49.6	43.7	38.8	41.3	42.8	44.7	43.6	54.1	62.4	67.1	64.8	57.8	
SAN JOAO VAL WESTSIDE BR																		
LITTLE PANOCHIE DET DAM	EWAP	111.02	17.80	17.03	11.20	6.86	3.01	2.28	1.74	3.01	6.81	10.13	15.20	15.97	19.56	16.89	13.79	115.23
	WIND	32857	3199	2619	1980	2280	1675	2139	2310	2046	2892	4135	4015	3561	3224	2658	2376	33311
	AV MAX		90.4	89.0	85.9	70.1	62.4	54.7	55.9	61.8	68.3	71.7	82.4	86.1	90.7	88.9	83.2	
	AV MIN		60.3	58.6	59.8	47.5	41.9	40.3	42.5	42.8	43.9	43.1	52.0	57.3	60.9	58.6	53.3	
LOS BANOS DET RES	EWAP	110.18	17.22	16.66	11.70	6.50	2.83	1.92	1.77	2.71	7.02	10.36	15.43	16.06	19.78	16.56	14.40	115.34
	WIND	57470	4953	4190	3619	4078	3199	3619	3649	3169	4885	7645	7488	6976	5386	4699	5428	60221
	AV MAX		88.8	85.1	81.9	70.7	62.1	55.1	55.6	62.1	69.1	72.0	82.4	86.8	91.2	89.8	83.0	
	AV MIN		61.5	60.6	60.5	50.0	45.1	41.9	43.9	44.3	45.9	44.9	53.9	59.3	66.3	59.9	55.0	
SAN LUIS DAM	EWAP	116.9E	20.16	19.07	12.98	7.41	2.85	1.87	1.91	2.61	6.98	10.28	15.04	15.82	21.19	18.25	14.57	118.7E
	WIND	47893E	6959	4922	4769	3515	1687	1913	1377	1509E	2485	5080	6601	7085	6141	5643	3924	46951E
	AV MAX		91.7	92.9	88.1	73.8	65.0	57.3	57.4	65.5	72.4	75.1	82.9	85.6	91.1	89.9	83.1	
	AV MIN		61.1	62.0	61.2	51.9	46.6	43.6	45.6	45.5	47.8	46.0	53.3	56.5	60.6	59.5	57.5	
TULARE LAKE BASIN																		
TULARE LAKE VAL FL CO																		
CORCORAN EL RICO 1	EWAP	82.93E	13.07	12.28E	8.91E	5.25	2.23E	1.33E	1.07	1.65	5.01	7.91	11.93	12.29E	14.46	13.57	9.76	86.46E
	WIND	19920E	1300	1190E	1155E	1265	875E	1025E	1390	1460	2260	2950	2550	2500E	1970	2120	1790	22155E
DELANO GOVT CAMP	EWAP	79.77	13.60	11.52	8.38	4.50	2.53	1.75	1.60	2.29	4.36	6.38	10.18	12.68	13.67	10.98	8.38	79.30
KITTLESMITH CITY	EWAP	94.24	14.58	13.43	10.04	6.36	3.06	2.21	2.01	2.93	5.71	7.71	12.76	13.44	15.59	13.49	10.52	95.79
	WIND	11309	960	736	682	964	511	751	1013	903	1112	1158	1295	1244	1092	1049	885	11957
OLD RIVER 3 W	EWAP	85.78	15.91	13.73	10.64	6.22	2.25	1.34	2.06	2.41	4.40	6.78	9.80	10.24	10.14	10.85	7.86	74.35
	WIND	14313	1621	1645	1354	1457	1096	1032	1356	1013	784	1289	1053	611	294	704	714	11405
SANTIAGA RANCH	EWAP																	
	WIND						RB	3.38	2.11	187	2.77	5.75	9.05	14.57	15.42	16.83	13.60	
	WIND						RB	1431	1484	1439	1491	1860	2040	2170	2020	1710	1640	1780
U S COTTON FIELD STA	EWAP	90.16	13.46	11.41	9.36	5.89	2.95	1.78	2.21	2.53	5.91	9.43	12.09	13.14	13.25	10.34	9.16	88.60
	WIND	17932	1242	1008	1057	1499	1010	1319	1832	1634	2143	713	2260	2215	1330	721	871	17547
KINGS RIVER C1																		
FINE FLAT DAM	EWAP	68.46	11.07	12.75	7.46	4.22	2.30	1.21	1.04	1.84	3.52	5.47	9.40	10.23	10.91	11.38	8.81	70.40
	WIND	-	-	-	-	-	633	700	691	767	691	779	806	853	822	632	739	788
	AV MAX		99.1	97.5	91.8	72.9	62.1	53.5	54.9	62.6	70.4	76.2	89.1	92.8	97.4	95.0	86.3	
	AV MIN		66.4	65.0	61.8	49.2	42.4	38.0	40.7	42.4	45.5	45.6	55.7	63.2	66.0	65.4	59.3	
KAMAHAN RIVER C2																		
TERMINUS DAM	EWAP	91.41	14.18	14.81	10.98	6.36	3.81	2.04	1.83	2.61	4.47	6.53	11.09	12.70	14.61	13.87	11.43	91.35
	WIND	22162	1955	2152	1890	2024	2077	1987	1989	1674	1749	1378	1380	1858	1606	1619	1784	21143
	AV MAX		95.7	94.0	89.6	73.0	63.2	54.4	56.0	63.0	70.5	75.7	88.0	92.2	94.4	93.5	86.7	
	AV MIN		67.9	66.5	63.9	50.8	44.5	40.5	43.7	43.9	46.0	46.9	55.2	62.0	66.9	65.1	56.7	
WHITAKER FOREST	EWAP	-	7.22	8.30	5.58	-	-	-	-	-	-	-	-	-	5.89	8.27	6.48	6.37
	WIND	-	312	213	301	-	-	-	-	-	-	-	-	-	656	670	534	683
TULE RIVER C3																		
SUCCESS DAM	EWAP	84.99	13.16	13.06	9.64	5.70	3.04	1.74	1.67	2.34	4.65	6.94	10.92	12.13	13.43	12.95	10.16	85.67
	WIND	15438	1905	1299	1093	1028	1630	1397	1390	1423	1841	1378	1626	1858	1606	1619	1784	15941
	AV MAX		94.9	93.0	88.4	72.8	63.1	53.4	55.8	62.8	68.6	74.5	85.8	90.6	93.0	90.9	84.3	
	AV MIN		68.0	66.8	62.7	50.9	44.6	39.1	42.3	43.2	46.5	47.1	55.6	61.7	66.9	65.0	57.3	
KERN RIVER C5																		
ISABELLA DAM	EWAP	82.13	12.02	12.77	8.71	5.75	3.16	1.91	1.91	3.06	4.45	5.98	10.82	11.77	13.40	13.45	10.34	85.82
	WIND	22815	1910	1897	1432	1257	1402	1465	1756	1698	2093	2434	2390	2303	1926	2116	2031	23649
	AV MAX		88.2	82.5	78.4	62.6	54.8	46.4	46.6	54.1	58.0	61.2	73.8	79.2	81.0	81.8	74.6	
	AV MIN		59.1	56.1	53.0	41.3	37.7	33.2	34.8	36.1	36.9	37.2	45.1	52.3	56.7	55.4	46.7	
CUMMINGS VALLEY	EWAP	79.70	11.52	11.01	8.23	5.46	5.08	2.60	1.36	4.37	4.56	5.65	9.30	10.33	12.28	11.90	10.63	83.75
	WIND	28682	1508	1261	1238	2169	1472	1815	2674	2324	2694	3170	2914	2556	2074	2063	2647	31459
TULARE L BAS WESTSIDE C																		
TAFT KTR	EWAP	97.51	14.90	14.55	10.35	6.38	3.61	2.07	2.28	2.96	5.57	7.72	12.82	14.30	16.46	13.45	11.21	98.83
	WIND	12560E	1000	910	660E	410	300	415	585	960	1630	1980	1810	1900	1350	1150	1350	13840

TABLE A-5
CLIMATOLOGICAL STATION CHANGES
AND
RELOCATIONS

Changes in Station Names

<u>New Name</u>	<u>Former Name</u>
Hanford Refinery	Hanford Well #21

Equipment Changes and Relocations

Corcoran El Rico 1	Equipment moved 5.9 mi. SW	1- 8-70
Hanford Well #21	Equipment moved 0.65 mi. SE	10-27-69



APPENDIX B
SURFACE WATER MEASUREMENT



INTRODUCTION

This appendix presents surface water data for the 1970 water year, which is from October 1, 1969 to September 30, 1970. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, additions and discontinuations, corrections and revisions to previously published reports, and discharge measurements at miscellaneous sites.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B	HYDROGRAPHIC AREA C
SAN JOAQUIN RIVER BASIN	TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California
Part 1, Surface Water Records
Volume 2: Northern Great Basin and Central Valley
United States Department of the Interior
Geological Survey
Prepared in cooperation with the California Department of Water Resources
and with other agencies.
2. Kings River Watermaster Report
Kings River Water Association
3. Water Supply
Fresno Field Division, U. S. Bureau of Reclamation
4. Bulletin 120, Water Conditions in California, Fall Issue
Department of Water Resources
5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970
Department of Water Resources
This index contains the period of record--with number of years missing--and more information for 800+ stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

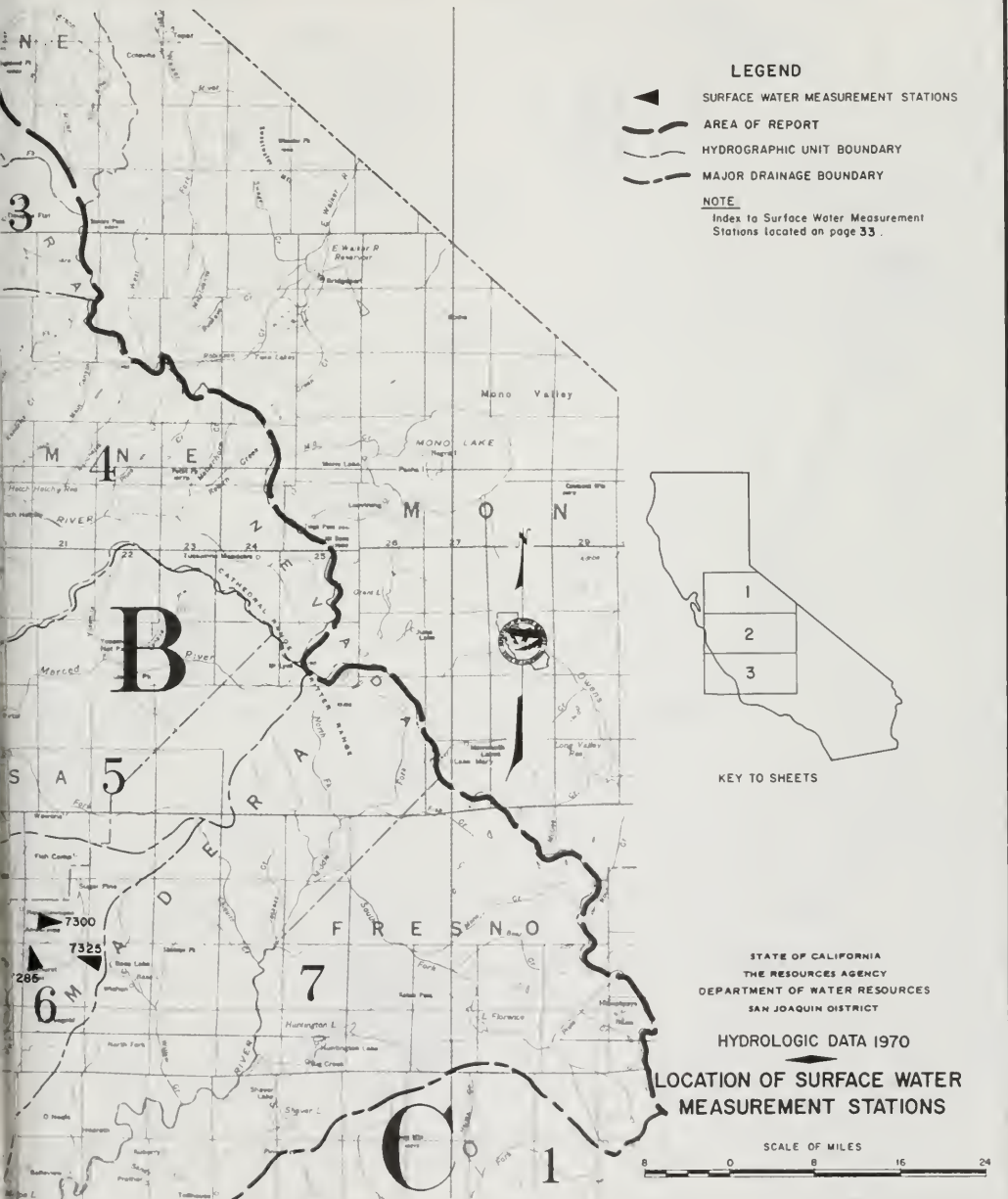
ALPHABETICAL INDEX TO TABLES

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

	Page
Daily Mean Discharge	Daily Mean Gage Height
Bean Creek near Coulterville	68
Bear Creek below Bear Reservoir	61
near Cathays Valley	43
at McKee Road near Merced	62
at Merced Irrigation District West Boundary	63
Big Creek Diversion near Fish Camp	43
Buena Vista Creek near Taft	97
Burns Creek below Burns Reservoir	64
at Hornitos	43
Campbell-Moreland Ditch above Porterville	89
Chowchilla River near Raymond	56
West Fork near Mariposa	55
Cross Creek below Lakeland Canal #2	85
Delta-Mendota Canal near Tracy	47
to Mendota Pool	48
Dry Creek near Modesto	78
Eastside Bypass near El Nido	57
Fresno River Eight Miles West of Madera	54
Lewis Fork near Oakhurst	51
Friant-Kern Canal Delivery to Porter Slough	86
to Tule River	87
Hubbs-Miner Ditch at Porterville	94
James Bypass near San Joaquin	46
Kern River near Bakersfield	96
Kings River, South Fork, below Empire Weir #2	84
Mariposa Creek near Cathays Valley	58
below Mariposa Reservoir	59
Maxwell Creek at Coulterville	69
Merced River at Cressey	71
below Snelling	70
North Fork near Coulterville	43
Miami Creek at Highway 49 near Ahwahnee	53
near Oakhurst	52
Mustang Creek near Ballico	72
Orestimba Creek near Crows Landing	73
Owens Creek below Owens Reservoir	60
Panoche Drain near Dos Palos	66
Poplar Ditch near Porterville	93
Porter Slough at Porterville	90
Porter Slough Ditch at Porterville	91
Salt Slough near Stevinson	67
San Joaquin River at Crows Landing Bridge	74
near Dos Palos	50
at Fremont Ford Bridge	117
below Friant	45
at Maze Road Bridge	80
near Mendota	49
near Newman	120
at Patterson Bridge	75
above Sand Slough	43
near Stevinson	65
near Vernalis	83
Stanislaus River at Koetitz Ransom Bridge	82
at Orange Blossom Bridge	81
at Ripon	129
at Ripon	130
at Ripon	114
Tulare Lake	88
Tule River below Porterville	77
Tuolumne River at Hickman Bridge	76
at La Grange Bridge	124
at Modesto	123
at Tuolumne City	126
Vandalia Ditch near Porterville	79
Woods-Central Ditch near Porterville	92
at Ripon	95
DIVERSIONS	
Deliveries from California Aqueduct	112
Deliveries from Central Valley Project Canals	110
Dry Creek	106
East Side Canals and Irrigation Districts	109
Merced River	107
San Joaquin River	100
Vernalis to Fremont Ford Bridge	102
Fremont Ford Bridge to Gravelly Ford	103
Gravelly Ford to Friant Dam	104
Stanislaus River	108
Tule River	108
Tuolumne River	105
GAGING STATION ADDITIONS AND DISCONTINUATIONS	
IMPORTS AND EXPORTS	
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS	
STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS	
UNIMPAIRED RUNOFF	
Annual	40
Monthly	42

Page

33







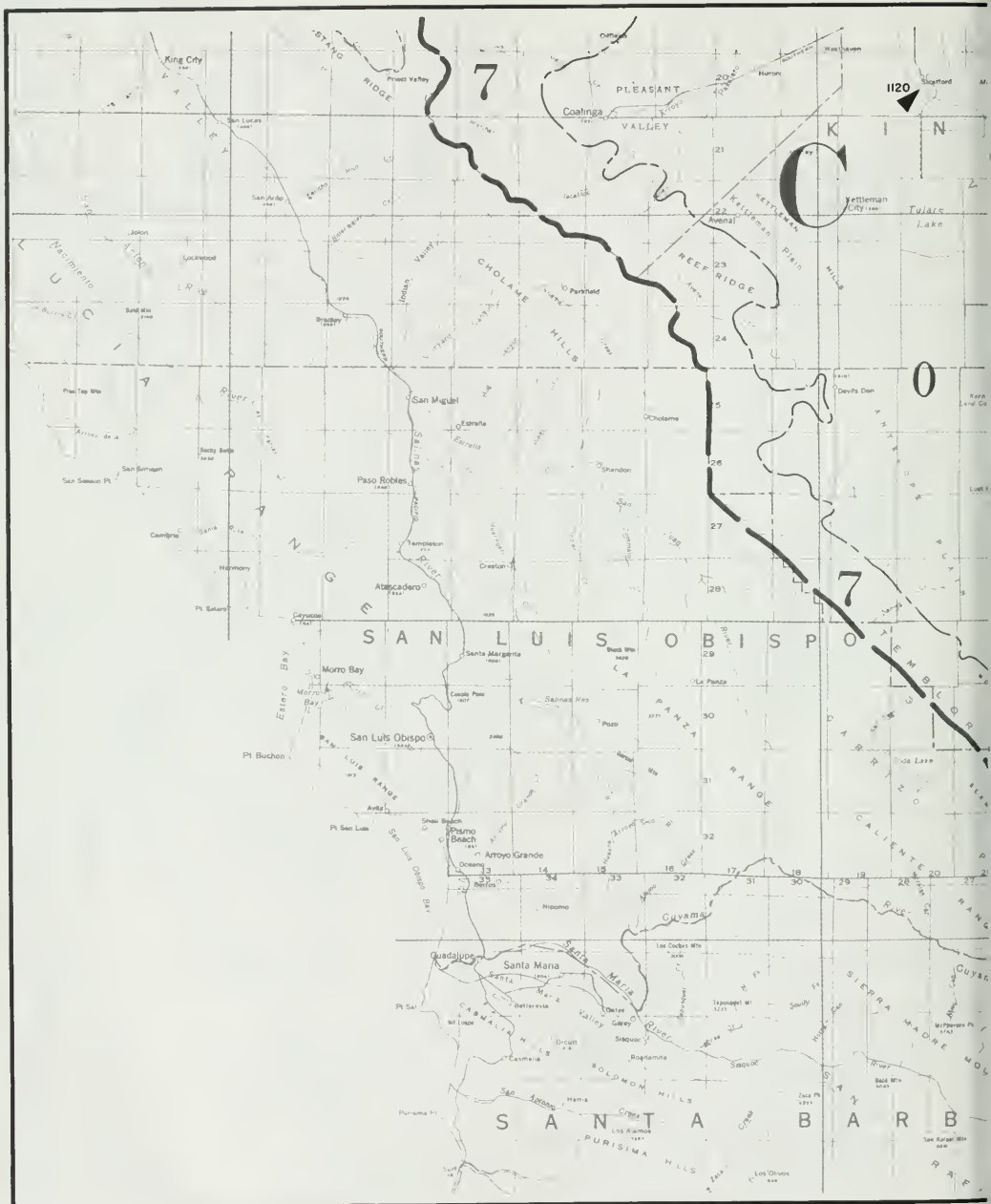




TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

TABLE 8-1
ANNUAL UNIMPAIRED RUNOFF
In percent of average

Water Year	Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1085	1789	920	1659	5452	1568	404	133	629
1930-31	29	34	29	29	30	30	28	19	29
1931-32	125	118	121	123	121	133	129	104	111
1932-33	56	63	56	67	62	75	70	60	68
1933-34	39	45	39	42	42	42	32	15	37
1934-35	112	118	127	116	118	103	89	67	72
1935-36	122	121	125	112	119	120	121	128	119
1936-37	102	112	132	133	120	149	168	230	176
1937-38	188	192	226	222	206	209	216	267	205
1938-39	48	55	52	56	53	62	61	62	72
1939-40	129	124	119	113	121	114	127	158	111
1940-41	123	140	158	160	146	162	159	177	198
1941-42	137	133	140	136	136	128	122	102	119
1942-43	144	133	140	124	134	129	166	274	159
1943-44	62	73	74	76	72	75	78	77	92
1944-45	118	117	119	129	121	132	136	153	128
1945-46	109	105	102	104	105	103	88	71	103
1946-47	58	62	61	68	63	71	66	39	68
1947-48	83	79	75	73	77	64	65	48	53
1948-49	69	70	69	70	70	61	54	37	47
1949-50	99	87	78	79	85	82	75	47	69
1950-51	156	139	133	112	133	102	104	116	84
1951-52	177	167	170	171	171	182	204	241	221
1952-53	89	86	68	74	80	74	76	74	86
1953-54	82	81	73	79	79	83	76	67	80
1954-55	63	64	58	70	64	71	68	49	56
1955-56	174	177	182	178	178	162	180	157	139
1956-57	82	80	70	80	79	79	73	49	69
1957-58	155	148	153	159	153	157	159	168	167
1958-59	54	56	50	57	55	52	38	24	43
1959-60	55	59	52	50	54	45	45	36	44
1960-61	37	41	34	39	39	36	29	15	28
1961-62	92	99	101	116	103	118	98	65	104
1962-63	117	115	107	117	115	119	124	89	117
1963-64	60	64	49	56	58	54	57	45	50
1964-65	164	154	145	137	149	123	121	102	109
1965-66	65	73	73	78	73	77	61	35	64
1966-67	178	174	187	195	182	207	254	281	251
1967-68	59	57	46	52	54	51	54	48	73
1968-69	203	207	240	244	223	271	314	375	351
1969-70 (c)	122	108	95	87	102	82	88	91	94

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary values and subject to revision.

TABLE 8-2
MONTHLY UNIMPAIRED RUNOFF
In percent of average (a)

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	204	293	269	199	239	209	224	511	233
	Average	8	14	6	16	45	16	4	1	14
November	Percent	85	80	97	105	90	106	93	121	187
	Average	24	45	20	30	119	28	8	4	17
December	Percent	145	120	73	75	105	65	61	69	105
	Average	52	92	46	62	253	54	21	11	28
January	Percent	530	364	285	230	355	194	254	244	215
	Average	67	108	56	69	300	59	22	14	28
February	Percent	137	97	81	88	75	75	74	69	115
	Average	85	140	80	95	400	80	30	19	32
March	Percent	118	111	120	107	113	95	111	98	111
	Average	112	168	90	128	500	106	38	24	49
April	Percent	69	57	60	62	61	61	64	49	69
	Average	196	282	148	236	863	214	64	24	86
May	Percent	88	90	90	87	89	92	92	58	73
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	96	98	75	75	86	68	68	58	74
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	56	85	64	69	71	64	56	66	77
	Average	52	113	48	158	370	150	26	3	63
August	Percent	83	102	58	79	82	59	41	100	84
	Average	13	20	10	46	89	44	7	1	26
September	Percent	85	108	78	60	77	62	75	60	85
	Average	6	8	4	18	36	17	3	0	15
1969-70 Water Year	Percent	122	108	95	87	102	82	88	91	94
	Average	1085	1789	920	1659	5452	1568	404	133	629

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

TABLE B-3

GAGING STATION
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS

Date

B07200	San Joaquin River at Patterson Bridge	10-1-69
B67285	Miami Creek at Hwy 49 near Ahwahnee	10-1-69

DISCONTINUED STATIONS

B07575	San Joaquin River above Sand Slough	9-30-69
B52600	North Fork Merced River near Coulterville	9-30-69
B55400	Bear Creek near Catheys Valley	9-30-69
B56400	Burns Creek at Hornitos	9-30-69
B67920	Big Creek Diversion near Fish Camp	9-30-69

TABLE B-4

DAILY MEAN DISCHARGE

The streamflow table is arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-4

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	73	41	47	42	492	116	83	62	90	83	88	80	1
2	73	39	46	42	492	155	83	60	90	82	88	80	2
3	63	39	46	44	935	76	68	58	87	83	90	82	3
4	49	38	46	44	1760	89	54	60	85	83	90	97	4
5	49	36	47	44	1950 *	138	54	68	85	82	90	88	5
6	49	39	49	44	1940	95	54	92	85	80	88	82	6
7	49	39	47	46	1940	85	55	92	85	80	88	80	7
8	47	39	49	46	1940	82	55	90	82	80	88	80	8
9	49	39	49	47	1780	76	55	90	78	88	90	80	9
10	49	38	49	47	1000	73	55	90	78	95	88	80	10
11	49	39	50	49	233	68	55	92	78	95	88	78	11
12	49	39	49	49	50	66	57	92	80	102	95	80	12
13	47	39	49	47	49	65	58	92	78	108	104	78	13
14	47	39	50	60	50	63	58	90	78	112	106	78	14
15	49	39	52	55	49	62	60	90	78	119	106	78	15
16	49	39	52	187	49	66	58	90	73	121	104	78	16
17	49	39	44	85	57	60	60	90	68	121	99	71	17
18	50	39	46	70	54	58	60	90	70	121	95	63	18
19	50	41	52	58	50	57	60	90	70	121	95	63	19
20	44	41	50	57	50	55	60	90	75	119	95	63	20
21	39	41	52	54	49	55	60	92	70	119	95	63	21
22	38	41	49	65	47	55	60	92	68	117	94	63	22
23	38	41	47	336	42	54	60	92	68	108	94	63	23
24	39	41	46	801	42	54	60	92	70	108	88	63	24
25	41	41 *	52	966	42	54	60	92	76	108	83	65	25
26	39	41	49	798 *	42 *	54	60	90	85	106	83	65	26
27	39	42	46	502	42	88 *	62	90	82	102	83 *	66	27
28	39	44	46	497	47	168	62	90 *	82	100	82	65	28
29	39	46	47 *	492 *		200	62 *	92	82	100	82	60	29
30	41	46	44	492		175	62	90	83 *	100	82	55 *	30
31	39		42	492		126		90		95 *	82		31
MEAN	47.2	40.2	48.0	215	545	87	60.3	86.1	78.6	101	91.1	72.9	MEAN
MAX.	73	46	52	966	1950	200	83	92	90	121	106	97	MAX.
MIN.	38	36	42	42	42	54	54	58	68	80	82	55	MIN.
AC FT.	2900	2390	2950	13210	30290	5330	3590	5300	4680	6220	5600	4340	AC FT.

S - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
120	1960	5.34	2	4	1100	36	1.63	11	5		86810

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CF5	GAGE HT	DATE				FROM	TO	
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE			1938		USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	CO0200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	242	1052	0							1
2			0	198	623	0							2
3			0	170	344	236							3
4			0	172	212	228							4
5			0	129	102	208							5
6			0	42	52	308							6
7			0	80	22	250							7
8			0	68	5	105							8
9			0	0	0	25							9
10			0	0	0	0							10
11			0	0	0	0							11
12	N	N	0	0	0	0	N	N	N	N	N	N	12
13	O	O	0	0	0	0	O	O	O	O	O	O	13
14			0	65	0	0							14
15			0	190	0	0							15
16	F	F	0	627	0	0	F	F	F	F	F	F	16
17	L	L	0	985	0	0	L	L	L	L	L	L	17
18	O	O	0	1775	0	0	O	O	O	O	O	O	18
19	W	W	0	1851	0	0	W	W	W	W	W	W	19
20			0	1806	0	0							20
21			0	1785	0	0							21
22			0	1752	0	0							22
23			0	1740	0	0							23
24			0	1734	0	0							24
25			0	1731	0	0							25
26			0	1728	0	0							26
27			0	1704	0	0							27
28			0	1659	0	0							28
29			187	1647	0	0							29
30			268	1585	0	0							30
31			235	1418	0	0							31
MEAN			22.3	867	86.1	43.9							MEAN
MAX.			268	1851	1052	308							MAX.
MIN.			0	0	0	0							MIN.
AC. FT.			1370	53320	4780	2700							AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
85.9	1986	7.02	1	18	2100	0	10	1	0000		62170

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO	
36 39 06	120 10 45	SW 1 15S 16E				MAY 27-DATE				

Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period are available from their office in Sacramento.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	895925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2533	323		0	1237	1878	3262	3657	4148	4382	4360	2153	1
2	2596	324		0	908	1308	3676	2237	4108	4382	4338	2278	2
3	2728	323		0	781	1382	3659	1588	4188	4495	4229	2285	3
4	3168	323		0	900	1540	4131	1591	4167	4476	4079	2086	4
5	4142	321		0	773	942	4142	1600	4443	4484	3508	1873	5
6	3105	722		0	774	1138	4104	1615	4592	4490	3504	1865	6
7	2878	576		0	772	908	4105	1740	4381	4510	3872	1865	7
8	2460	397		0	770	493	4112	2065	4470	4502	4245	1999	8
9	2050	397		0	772	859	4112	4013	4455	4543	3862	1915	9
10	2047	433		0	1254	1198	4081	4013	4461	4513	3843	1900	10
11	1865	361		0	1257	935	4068	4020	4140	4562	3730	1968	11
12	1900	360	N	0	1264	858	4075	3929	3771	4558	3896	2105	12
13	1906	505	O	0	1253	862	3897	3952	3777	4563	3926	2101	13
14	2030	578		0	1669	866	3897	3935	3777	4580	3965	2090	14
15	2031	650		130	1678	944	3823	4002	3802	4597	3895	2092	15
16	1663	0	F	1685	1420	1083	3968	4032	4065	4576	3928	2021	16
17	1589	72	L	1692	1889	1280	3918	3988	4468	4592	3849	2058	17
18	1406	215	O	1623	2028	1429	3897	3946	4446	4571	3599	2049	18
19	1332	286	W	73	2087	1654	3871	3920	4255	4581	3513	2059	19
20	1331	286		109	2079	1645	3861	3962	3970	4576	3459	2048	20
21	1113	359		110	2174	1960	3803	4273	4499	4570	3348	2170	21
22	975	360		147	2120	2093	3719	4299	4292	4374	3357	2430	22
23	434	323		370	2147	2143	3018	4295	4020	4266	3361	2453	23
24	433	288		1027	1971	2753	3178	4309	4092	4262	3357	3044	24
25	433	650		1023	1930	3200	3154	4243	4218	4189	3096	3158	25
26	416a	866		773	2020	3174	3133b	4249	4185	4216	2912	3031	26
27	434	685		518	1641	3179	3552	4218	4508	4193	2991	3031	27
28	433	0		788	1889	3190	3370	4168	4475	4216	3019	2816	28
29	433	0		785		3189	874	4138	4325	4367	2473	2820	29
30	324	0		905		3193	2863	4213	4391	4317	2475	2692	30
31	325			1017		3198		4205		4359	2331		31
MEAN	1629	366		412	1481	1757	3645	3562	4230	4447	3236	2282	MEAN
MAX.	4142	866		1692	2174	3200	4142	4309	4592	4597	4360	3158	MAX.
MIN.	324	0		0	770	493	874	1588	3771	4189	2331	1865	MIN.
AC. FT.	100225	21784		25339	82229	108048	216619	219005	251681	273445	218819	135780	AC. FT.

E - ESTIMATED

NE - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

a - 25-HOUR DAY

b - 23-HOUR DAY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2256						0		11			1652974

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 47 45	121 35 05	SW 31 1S 4E				JUN 51-DATE		1951		0.00 USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)														WATER YEAR		STATION NO.		STATION NAME	
DAILY MEAN DISCHARGE														1970		B00770		DELTA-MENDOTA CANAL TO MENDOTA POOL	
(IN CUBIC FEET PER SECOND)																			
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY						
1	1733	751	150		0	641	1888	1473	2201	2399	2872	1709	1						
2	1752	752	125		0	471	2140	1650	2326	2304	2872	1582	2						
3	1733	656	65		0	469	2046	1973	2444	2304	2899	1685	3						
4	1734	813	0		0	367	1870	1377	2449	2340	2824	1577	4						
5	1734	667	0		0	115	1870	1683	2419	2464	2588	1440	5						
6	1724	698	0		0	320	1822	1682	2490	2782	2152	1440	6						
7	1562	500	0		0	175	1754	1730	2490	3090	2570	1470	7						
8	1352	460	0		0	100	1762	1882	2453	2482	2755	1549	8						
9	1304	460	0		0	100	1856	1920	2405	2729	2786	1506	9						
10	1297	478	0		0	439	1974	1920	2201	2681	2777	1503	10						
11	1062	478	0		0	440	2092	1902	2033	2683	2478	1517	11						
12	1066	429	0	N	0	476	2122	1877	1946	2683	2563	1645	12						
13	1180	461	0	O	0	552	2071	1872	1847	2654	2492	1645	13						
14	1279	431	0		306	590	1825	1839	1756	2851	2714	1534	14						
15	1186	431	0		350	622	1410	1794	1927	2856	2715	1471	15						
16	1020	430	0	F	392	810	1406	1794	2271	2810	2715	1470	16						
17	914	307	0	L	605	834	1409	1794	2448	2775	2686	1493	17						
18	808	416	0	O	626	998	1409	1881	2541	2775	2642	1491	18						
19	807	474	0	W	700	1000	1410	1994	2494	2776	2577	1491	19						
20	750	524	0		749	1000	1750	2062	2409	2759	2352	1491	20						
21	575	593	0		900	1260	1527	2125	2409	2808	2418	1554	21						
22	506	594	0		900	1440	1831	2170	2427	2550	2454	1685	22						
23	550	594	0		864	1764	1760	2171	2420	2671	2454	1898	23						
24	562	500	0		764	2203	1685	2171	2466	2643	2517	1940	24						
25	571a	575	0		680	2263	1616b	2158	2629	2643	2475	1910	25						
26	629	575	0		705	2456	1616	2062	2687	2675	2443	1980	26						
27	645	650	0		755	2600	1228	1965	2759	2665	2084	1949	27						
28	651	729	0		929	2600	1108	1977	2759	2747	2187	1636	28						
29	664	350	0			2600	1191	1986	2687	2867	2053	1672	29						
30	766	300	0			2600	1384	2111	2502	2704	1730	1604	30						
31	683		0			2571		2112		2872	1614		31						
MEAN	1058	536	11.0		365	1125	1694	1907	2376	2679	2499	1625	MEAN						
MAX.	1752	813	150		929	2600	2140	2171	2759	3090	2899	1980	MAX.						
MIN.	506	300	0		0	100	1108	1377	1756	2304	1614	1440	MIN.						
AC. FT.	65103	31886	674		20281	69176	100690	117237	141412	164711	153637	96670	AC. FT.						

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND W
a - 25-HOUR DAY
b - 23-HOUR DAY

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME
1328							0		12		
											961477

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
36 47 11	120 23 05	NW 19 13S 15E				JUL 51-DATE					
Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	238	187	237	170	1148	218	260	236	343	331	358	282	1
2	238	188	235	178	675	194	261	235	354	342	351	275	2
3	239	189	230	179	335	176	264	235	366	349	358	267	3
4	238	191	226	178	335	205	263	238	362	351	368	261	4
5	239	194	200	175	354	270	266	248	357	351	361	254	5
6	240	198	161	170	699	176	271	265	358	353	340	252	6
7	241	209	158	168	1645	211	278	267	360	370	339	250	7
8	242	216	156	164	1164	274	296	284	358	371	345	253	8
9	241	226	158	170	1086	206	297	280	345	366	348	260	9
10	240	236	220	166	1220	173	291	275	331	353	353	266	10
11	238	241	211	164	924	172	288	278	319	338	347	265	11
12	238	240	173	170	486	172	287	283	318	336	336	264	12
13	221	241	161	218	299	171	283	290	323	345	332	265	13
14	193	241	150	243	249	171	275	291	331	356	331	263	14
15	179	242	144	253	238	172	266	291	335	357	326	260	15
16	173	243	141	303	231	185	252	291	351	356	319	251	16
17	166	245	138	474	220	215	250	288	349	358	332	250	17
18	172	244	140	1124	191	214	253	288	335	370	330	255	18
19	184	244	137	1958	204	226	256	302	316	371	326	262	19
20	193	244	134	1710	218	244	257	318	340	366	322	261	20
21	202	245	131	1352	211	243	263	321	352	362	319	262	21
22	202	258	133	1841	212	242	264	313	353	369	317	263	22
23	196	265	136	2067	219	245	264	295	352	365	317	260	23
24	198	265	139	1917	229	259	267	296	351	358	316	258	24
25	204	263	140	1795	226	271	269	306	348	354	308	258	25
26	218	262	138	1791	223	266	270	319	343	352	302	258	26
27	214	262	137	1850	221	290	266	323	328	351	301	258	27
28	184	254	138	2065	222	292	248	330	322	352	263	257	28
29	182	239	136	2030	295	240	334	327	354	354	291	256	29
30	196	238	138	1845	286	237	339	328	362	364	288	245	30
31	195		157	1407	269		336				288		31
MEAN	211	234	162	913	489	227	266	290	342	356	327	260	MEAN
MAX.	242	265	237	2067	1645	295	291	339	366	371	391	282	MAX.
MIN.	166	187	131	164	191	171	237	235	316	331	283	245	MIN.
AC. FT.	12980	13900	9980	56120	27140	13930	15830	17840	20340	21880	20120	15450	AC. FT.

E - ESTIMATED
NR - NO RECORD
- DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	NO.	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	NO.	DAY	TIME	TOTAL ACRE FEET
339	2265	9.95	1	23	1400	130	2.17	12	21	0400	245510

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT.	DATE						
36 48 37	120 22 35	SW 7 13S 15E	11740a 6840	13.75	6-20-41 6-1-52	OCT 39-DATE		1939 1954	142.53 140.53	USBR USBR	
Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)													
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
WATER YEAR		STATION NO.		STATION NAME									
1970		B07610		SAN JOAQUIN RIVER NEAR DOS PALOS									
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	64	12	1140	0	0	12	12	12	12	12	1
2		0	61	30	935	0	0	12	12	8	12	12	2
3		0	58	40	393	0	0	12	12	9	12	12	3
4		0	55	41	282	0	0	12	12	12	12	12	4
5		0	49	38	262	0	0	12	12	12	12	12	5
6		0	18	32	342	4	0	12	7	12	12	12	6
7		0	24	0	828	0	8	12	0	12	8	12	7
8		14	0	16	1440	0	12	12	0	12	0	12	8
9		36	0	11	908	35	12	12	5	12	4	12	9
10		46	0	13	1038	0	12	3	9	12	9	12	10
11		54	35	9	1014	0	3	0	12	12	12	12	11
12	N	58	23	4	638	0	0	9	8	12	12	7	12
13	O	59	0	7	342	0	8	12	0	3	12	0	13
14		61	0	50	202	0	12	12	0	0	12	0	14
15		63	0	76	148	0	12	12	9	9	12	9	15
16	F	63	0	94	79	0	12	12	12	12	9	12	16
17	L	65	0	198	29	0	3	12	12	12	9	12	17
18	O	65	0	479	0	0	8	12	8	12	12	12	18
19	W	64	2	1098	0	0	12	12	12	12	12	4	19
20		65	1	1732	0	0	12	12	4	12	12	0	20
21		65	0	1272	0	0	12	12	9	12	12	3	21
22		70	0	1398	0	0	12	12	12	12	12	12	22
23		92	0	1748	0	0	8	12	12	12	12	12	23
24		102	0	2323	0	0	12	12	12	12	12	12	24
25		102	0	2223	0	0	12	12	12	7	12	7	25
26		102	0	2160	0	0	12	12	12	9	12	0	26
27		102	0	1800	0	0	12	12	8	12	10	0	27
28		102	0	1748	0	0	12	12	5	12	9	9	28
29		78	0	1948	0	0	12	12	12	12	12	4	29
30		68	0	1860	0	0	12	12	12	10	12	0	30
31			0	1608	0	0		12		5	12		31
MEAN		53.2		777	358	1.3	8.1	11.2	8.8	10.5	10.8	8.2	MEAN
MAX.		102		2323	1440	35	12	12	12	12	12	12	MAX.
MIN.		0		4	0	0	0	0	0	0	0	0	MIN.
AC. FT.		3170	730	47790	19870	77	480	690	520	640	660	490	AC. FT.

E - ESTIMATED

NB - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	GAUGE HT.	MO.	DAY	TIME	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	ACRE FEET	
104	2439	7.41	1	24	1400	0	10	1	0000	75117	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAUGE	REF. DATUM	
			CFS	GAUGE HT.	DATE						
36 59 38	120 30 02	N412 11S 13E	8920a 8200	10.52b	6-24-41 6- 5-52	OCT 40-DATE		1945 1944	116.5	USED	
Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											
b Gauge height at site and datum then in use.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B67325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13	20	18	27	66	210	64	92	71	33	11 E	3.2	1
2	13 #	19	19	20	62	152 *	65	92	69	32 *	11 E	3.3	2
3	14 E	19	18	18	60	105	66 *	92	66	34	10 E	3.3	3
4	14 E	19	20	15	58	100	66	91	63	34	9.2E	3.1*	4
5	14 E	19	21	12	56 *	94	67	91 *	60	31	9.2E	2.9	5
6	14 E	44	22	14	54	89	69	92	57	29	5.3	3.5	6
7	14 E	34	21	19 *	54	85	68	93	54	28	6.2	3.5	7
8	14 E	27	19	26	53	82	65	94	57	27	6.4	3.3	8
9	14 E	25	15	41	52	76	77	94	86	27	9.0	3.1	9
10	15 E	24	16	118	52	76	78	93	67 *	27	8.2	3.1	10
11	16 E	23	15	57	54	69	78	92	62	25	7.3	3.2	11
12	16 E	23	16	50	64	68	78	89	59	24	5.3	3.3	12
13	16 E	23	16	48	86	71	81	90	62	23	4.9	3.6	13
14	16 E	23	16	144	91	75	81	90	63	22	4.8	3.8	14
15	36 #	24	16	101	73	77	80	91	60	19	4.7	4.2	15
16	102	26	17	648	65	74	79	91	55	17	5.6	4.5	16
17	60	25	14	306	103	75	77	91	52	17	6.0	4.1	17
18	39	22	11	143	70	72	76	90	50	13	6.1	3.6	18
19	32	20	15	110 *	62	67	77	89	47	13	6.6	3.3	19
20	30	19	47	105	57	65	77	88	44	13	5.9	3.5	20
21	29	19	60	150	54	66	78	87	43	12	4.9	3.6	21
22	27	19	69	119	53	68	80	87	41	13	5.0	3.8	22
23	25	18	36 *	98	52	69	79	85	38	13	5.0	3.5	23
24	24	18	31	145	51	70	77	83	36	13	4.8	3.4	24
25	23	18	111	103	49	75	77	82	35	13	3.5	3.4	25
26	23	18	71	90	49	76	81	82	36	13	2.7	3.2	26
27	23	18	45	123	49	74	82	82	48	9.0	2.8	3.4	27
28	23	18	35	97	83	72	79	80	40	7.6	2.4	3.0	28
29	22	18	35	82	70	70	77	79	39	13 #	2.6	3.2	29
30	21	18	30	75	69	69	77	77	38	13 E	2.9	4.2	30
31	20		28	69	66	66	74	74		12 E	3.0		31
MEAN	24.6E	22.0	29.8	102	61.9	82.5	75.4	87.8	53.3	20.0	5.9	3.5	MEAN
MAX.	102	44	111	648	103	210	83	94	86	34	11	4.5	MAX.
MIN.	13 E	18	11	12	49	65	64	74	35	7.6	2.4	2.9	MIN.
AC. FT.	1511E	1309	1831	6294	3435	5072	4487	5401	3170	1229	362	206	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	GAUGE HT.	MO	DAY	TIME	DISCHARGE	GAUGE HT.	MO	DAY	TIME	TOTAL ACRES FEET
47.4	1290	4.09	1	16	1045	1.3	0.85	8	28	1530	34310

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAUGE HT.	DATE				FROM	TO	
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE			1961		0.00 LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet (revised), from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.7	3.9	3.8	5.5	13	54	11	8.8	4.7	3.4	1.8	1.0	1
2	2.7*	3.9	4.3	5.2	12	39 *	11	8.3	4.5	3.3*	1.7	1.0	2
3	2.8	3.8	5.1*	5.3	12	27	10 *	7.9	4.4	3.2	1.7	1.0	3
4	2.8	3.7*	4.3	6.6	11	23	10	7.6	4.3	3.2	1.6	0.9*	4
5	2.8	3.9	4.2	6.6	10 *	21	9.8	7.2*	4.3	3.0	1.6*	0.9	5
6	2.8	12	4.1	6.5	10	21	9.7	7.1	4.2	2.8	1.6	1.1	6
7	2.8	9.1	4.1	4.8*	9.6	21	9.4	7.2	4.2	2.7	1.6	1.2	7
8	2.8	7.0	4.5	5.2	9.2	20	9.3	7.2	4.7*	2.8	1.5	1.1	8
9	2.9	6.1	4.6	9.6	9.0	18	9.2	7.1	10	2.8	1.5	1.1	9
10	3.0	5.5	4.5	4.2	9.2	18	9.1	6.9	7.5	2.9	1.4	1.0	10
11	3.2	5.2	4.5	15	9.2	17	8.9	6.7	6.8	2.7	1.3	0.9	11
12	3.1	5.0	4.5	13	11	16	8.6	6.6	6.4	2.6	1.3	0.9	12
13	3.1	4.9	4.4	13	16	17	9.1	6.5	6.7	2.5	1.2	0.9	13
14	3.1	4.8	4.2	42	18	17	9.9	6.6	6.6	2.4	1.3	1.0	14
15	6.5	5.0	4.1	28	15	17	9.6	6.4	6.6	2.3	1.2	1.1	15
16	25	5.5	3.8	257	13	17	10	6.1	6.1	2.3	1.2	1.0	16
17	11	5.8	3.6	93	23	16	9.7	5.9	5.8	2.3	1.2	0.9	17
18	7.0	5.7	3.7	37	16	16	11	5.7	5.6	2.2	1.2	0.9	18
19	5.9	4.4	6.4	26 *	14	14	10	5.6	5.4	2.1	1.2	0.9	19
20	5.4	4.3	9.1	24	12	14	7.0	5.6	5.0	2.1	1.2	0.9	20
21	4.9	4.3	11	40	12	13	8.3	5.6	4.7	2.0	1.1	0.9	21
22	4.6	4.3	11	29	12	13	9.8	5.5	4.0	2.0	1.1	0.9	22
23	4.2	4.1	7.4*	21	11	13	10	5.3	3.5	2.0	1.1	0.9	23
24	4.2	4.1	6.7	38	11	13	9.8	5.1	3.4	2.0	1.1	0.9	24
25	4.1	4.0	22	23	11	13	9.1	5.1	3.4	1.9	1.0	0.8	25
26	4.1	4.0	13	19	11	13	9.2	5.1	3.5	1.8	1.1	0.8	26
27	4.2	3.9	8.9	27	11	12	9.8	5.1	5.1	1.8	1.1	0.8	27
28	4.2	3.9	7.7	21	19	11	9.3	5.1	4.3	1.7	1.0	0.8	28
29	4.3	3.9	6.9	17	12	12	9.1	5.0	3.9	1.7	1.1	0.7	29
30	4.1	3.9	6.4	15	11	11	9.4	4.9	3.7	1.7	1.0	0.8	30
31	3.9		5.9	14	11	11		4.9		1.8	1.0		31
MEAN	4.8	5.0	6.4	29.3	12.5	18.0	9.5	6.3	5.1	2.4	1.3	0.9	MEAN
MAX.	25	12	22	257	23	54	11	8.8	10	3.4	1.8	1.2	MAX.
MIN.	2.7	3.7	3.6	4.8	9.0	11	7.0	4.9	3.4	1.7	1.0	0.7	MIN.
AC. FT.	294	297	394	1804	695	1107	567	384	304	147	79	56	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
8.5	478	7.36	1	16	0930	0.7	2.51	9	29	1545	6128

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE			1959		LOCAL

Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	867285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9E	4.9	3.7	9.1	44	117	17	13	3.7	2.9	0.8	0.0	1
2	0.9H	4.9	3.9	8.6	42	101 *	17	12	2.0	3.2*	0.5	0.0	2
3	1.0E	4.5	5.9	9.7	40	61	16 *	11	2.1	3.4	0.1	0.1	3
4	1.0E	4.9	5.9*	9.7	39	55	16	11	3.2	3.2	0.0	0.1*	4
5	1.0E	5.2*	4.2	8.6	36 *	59	16	11 *	2.3	2.5	0.0*	0.0	5
6	1.0E	12	3.9	8.1	34	47	15	11	3.4	2.5	0.0	0.0	6
7	1.0E	14	3.9	6.8*	30	45	15	11	3.4	2.0	0.2	0.0	7
8	1.0E	9.7	4.2	6.8	28	42	15	12	3.9	1.4	0.6	0.0	8
9	1.1E	8.1	5.6	9.7	26	39	15	12	13	1.5	0.5	0.0	9
10	1.2E	8.1	5.6	49	24	39	15	12	9.1*	0.8	0.1	0.0	10
11	1.4E	6.8	5.2	24	23	35	15	11	5.9	0.5	0.1	0.1	11
12	1.3E	6.3	5.6	18 *	25	32	15	11	5.2	0.6	0.0	0.0	12
13	1.3E	5.9	5.6	20	34	31	16	10	5.9	1.0	0.0	0.0	13
14	1.3E	5.6	5.6	64 *	55	31	18	10	5.9	0.9	0.6	0.0	14
15	4.6#	5.9	5.6	63	34	30	17	8.1	5.2	1.1*	0.2	0.0	15
16	23	6.8	5.2	478 E	27 *	29	17 *	9.7	4.5	0.8	0.1	0.1	16
17	19 *	5.9	5.2*	232 E	68	28 *	16	9.1	3.7	0.9	0.0	0.0	17
18	12	8.1	5.2	89	39	26	16	8.1	3.7	1.1	0.0	0.0*	18
19	12	5.6*	6.3	40 *	32	24	18	9.7*	2.5	0.7	0.0	0.0	19
20	8.6	5.2	14	51	28	23	13	6.8	3.7	0.4	0.1*	0.0	20
21	6.3	4.9	13	76	25	22	13	6.8	2.9	0.3	0.4	0.0	21
22	6.3	5.2	19 *	71	24	21	15	6.3	3.2*	0.3	0.0	0.0	22
23	5.2*	4.5	13	55	22	21	16	5.9	3.2	0.4	0.0	0.0	23
24	4.9	4.5	12	78	22	21	16	5.9	2.9	0.9	0.0	0.1	24
25	5.2	4.5	27	61	21	20	15	5.9	2.3	0.8	0.0	0.0	25
26	4.9	4.5	25	53	20	20	14	5.9	3.4	0.9	0.0	0.0	26
27	5.2	3.9	15	71	20	20	16	4.9	3.2	0.5	0.0	0.0	27
28	5.2	3.9	13	64	34	17	15	5.2	3.4	0.5	0.0	0.0	28
29	5.2	2.9	14	53		18	15	3.7	3.7	0.2	0.0	0.0*	29
30	5.2	3.9	11	46		18	14	4.5	3.2	0.1	0.0	0.0	30
31	5.2		10	46		18		3.9		0.4	0.0		31
MEAN	4.9	6.0	9.1	60.7	32.0	35.8	15.6	8.7	4.1	1.2	0.1	0.0	MEAN
MAX	23	14	27	478 E	68	117	18	13	13	3.4	0.8	0.2	MAX
MIN.	0.9E	2.9	3.7	6.8	20	17	13	3.7	2.0	0.1	0.0	0.0	MIN.
AC FT.	304	359	560	3731	1777	2202	926	532	245	73	9	1	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACES FWT
14.8	913E	8.24	1	16	1100	0.0		8	4	2200	10720

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 20 50	119 43 00	SW 6 7S 21E	913E	8.24	1-16-70	OCT 69-DATE			1969		LOCAL
Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	26	90	90							1
2			0	28	90	1200							2
3			0	27	75	568							3
4			0	27	70	370							4
5			0	27	65	790							5
6			0	28	50	495							6
7			0	30	45	341							7
8			0	24	44	300							8
9			0	9	38	279							9
10			0	7	39	250							10
11			0	77	41	215							11
12	N	N	0	145	43	175	N	N	N	N	N	N	12
13	O	O	0	95	45	159	O	O	O	O	O	O	13
14			0	95	55	148							14
15			0	325	201	147							15
16	F	F	0	700	115	140	F	F	F	F	F	F	16
17	L	L	0	2564	114	125	L	L	L	L	L	L	17
18	O	O	0	1050	287	80	O	O	O	O	O	O	18
19	W	W	0	460	170	70	W	W	W	W	W	W	19
20			0	295	114	70							20
21			0	255	71	45							21
22			0	325	62	20							22
23			0	325	40	15							23
24			0	175	20	0							24
25			0	230	5	0							25
26			0	150	0	0							26
27			0	137	90	0							27
28			30	200	100	0							28
29			30	150	0	0							29
30			30	120	0	0							30
31			30	100	0	0							31
MEAN			3.9	265	77.8	197							MEAN
MAX.			30	2564	287	1200							MAX.
MIN.			0	7	0	0							MIN.
AC. FT.			238	16276	4322	12083							AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
22.9	3975	7.05	1	17	0830	0		10	1	0000	32920

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD FROM TO	ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	OATE						
36 58 30	120 12 12	NE 15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE			1936	0.00	LOCAL

Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder.
 Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation
 District.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.8	1.3	3.5	20	401	14	9.4	2.3	0.9			1
2	0.0	0.8	1.3	3.1	18	147	14	9.1	2.1	0.7			2
3	0.0*	0.8	1.4	2.9	16	74	14	8.8	1.9	0.6*		*	3
4	0.0	0.8	1.4*	2.9	16	134	14	8.5*	1.7	0.5			4
5	0.0	1.0*	1.4	2.8	14	127	12	7.8	1.5	0.4			5
6	0.0	5.0	1.4	2.6*	13	74	12	7.5	1.4	0.3			6
7	0.0	6.3	1.4	2.6	12	63	12	7.5	1.3	0.2			7
8	0.0	2.6	1.6	3.1	12	57	12	7.5	1.9	0.2			8
9	0.0	1.9	1.8	10	11	51	11	7.3	14	0.2			9
10	0.0	1.7	1.7	82	13	54	11	6.8	5.9	0.2		*	10
11	0.0	1.5	1.7	24	14	45	12	6.6	3.6*	0.2			11
12	0.0	1.4	1.6	20	18	41	11	6.6	2.9	0.2	N	N	12
13	0.0	1.3	1.6	17	38	38	14	6.8	2.7	0.1	O	O	13
14	0.0	1.3	1.6	125	68	35	21	6.4	2.7	0.1			14
15	0.2	1.3	1.5	57	33	33	16	5.9	2.7	0.0			15
16	8.0	1.4	1.5	946	26	32	14	5.3	2.3	0.0*	F	F	16
17	5.3*	1.3	1.5	139	94	30	13	4.8	2.0	0.0	L	L	17
18	2.1	1.3	1.5	62	38	28	12	4.4	1.8	0.0	O	O	18
19	1.6	1.3	3.7	38	30	25	11	4.2	1.6	0.0	W	W	19
20	1.3	1.3	5.7	33	26	25	11	4.6	1.4	0.0			20
21	1.1	1.3	8.8	77	22	23	12	4.6	1.2	0.0			21
22	1.0	1.3	14	47	20	22	12	4.4	1.0	0.0			22
23	0.9	1.3	5.1*	33	18	22	10	4.1	0.9	0.0			23
24	0.8	1.3	3.9	60	17	21	12	3.8	0.8	0.0			24
25	0.9	1.3	41	35	16	20	12	3.5	0.9	0.0			25
26	0.9	1.3	17	29	15	20	12	3.2	1.1	0.0			26
27	0.9	1.3	7.5	63	15	19	15	3.2	1.7	0.0			27
28	0.9	1.3	5.1	42	17	12	12	3.2	1.4	0.0			28
29	0.9	1.3	4.6	31	18	11	11	3.1	1.2	0.0		*	29
30	0.9	1.3	3.9	26	17	10	10	2.9	1.1	0.0			30
31	0.8		3.6	21	16			2.7		0.0			31
MEAN	0.9	1.6	4.9	65.8	24.8	55.8	12.6	5.6	2.3	0.2			MEAN
MAX.	8.0	6.3	41	946	94	401	21	9.4	14	0.9			MAX.
MIN.	0.0	0.8	1.3	2.6	11	16	10	2.7	0.8	0.0			MIN.
AC. FT.	57	95	300	4047	1379	3429	752	346	137	10			AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL ACRES FEET
14.6	2220	7.79	1	16	1000	0.0		10	1	0000	10550

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE						
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957	0.00	LOCAL	

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.7E	10 E	12 E	24	100 E	900 E	82	50	10 E	4.0E			1
2	1.7E	9.9E	12 E	23	94 E	1150	80 *	47	8.9E	3.6E			2
3	1.8E	9.8E	12 #	22	87 E	435 *	80	44	7.9E	3.4#		*	3
4	1.8E	9.6#	13 E	21	83 #	381	76	44 *	6.7E	3.2E	*		4
5	1.9E	9.8E	13 E	20	87	876	72	40	6.0E	3.0E			5
6	2.0E	16 E	13 E	20 *	80	447	70	38	6.0E	2.8E			6
7	2.1E	39 E	13 E	20	77	345 E	68	39	5.0E	2.7E			7
8	2.3E	36 E	13 E	21	75	268	66	39	5.0E	2.5E			8
9	2.4E	23 E	14 E	26	72	230	65	38	17 E	2.3E			9
10	2.6E	18 E	16 E	266	72	218	63	36	42 E	2.2E			10
11	2.7E	16 E	16 E	123	80	196	62	35	27 E	2.0E			11
12	2.9E	14 E	15 E	94 *	76	170	62	33	19 #	1.8E	N		12
13	3.0E	13 E	14 E	95	153	154	63	32	15 E	1.7E	O	N	13
14	3.2E	13 E	14 E	266	348	144	84	30	14 E	1.5E			14
15	4.5E	14 E	14 E	417 *	170 E	139	80	29	13 E	1.3E			15
16	9.6E	14 E	13 E	4080 *	128	134	75	27	12 E	1.1#	F	F	16
17	46 E	13 E	15	1130	313	127	68	27	11 E	0.9E	L	L	17
18	33 E	13 E	15	485	99 *	121	65	25	10 E	0.6E	O	O	18
19	20 E	12 E	18	332 E	155	113	65	24	8.9E	0.4E	W	W	19
20	17 E	12 E	29	262 #	136	107	64	23	7.4E	0.2E			20
21	14 E	12 E	35	280 E	120	104	61	22	6.5E	0.2E			21
22	12 E	12 E	56 *	330 E	110	102	65	22	5.2E	0.2E			22
23	11 E	13 E	44	200 E	103	100	62	21	4.0E	0.1E			23
24	10 E	13 E	31	240 E	100	97	59	18 E	4.4E	0.1E			24
25	10 E	13 E	37	192 E	94	96	56	16 E	4.2E	0.1E			25
26	10 E	13 E	120	155 E	89	95	54	15 E	4.2E	0.1E			26
27	11 E	13 E	54	170 E	86 E	94	58	14 E	4.0E	0.1E			27
28	11 E	13 E	37	209 E	96 E	87	59	14 E	3.8E	0.1E			28
29	10 E	13 E	30	140 E	86	86	55	13 E	5.4E	0.1E			29
30	10 E	13 E	27	120 E	87	87	52	12 E	4.6E	0.0E			30
31	11 E	26	26	109 E	88	88		11 E		0.0E			31
MEAN	9.1E	14.8E	25.5E	319 E	117	248	66.4	28.3	9.9E	1.4E			MEAN
MAX.	46 E	39 E	120	4080	348	1150	84	50	42 E	4.0E			MAX.
MIN.	1.7E	9.6E	12 E	20	72	86	52	11 E	3.8E	0.0E			MIN.
AC. FT.	560E	879E	1569E	19620E	6512	15250	3949	1741	591E	84 E			AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	TOTAL ACFT
70.1	8500	583.04	1	16	1400	0.0		7	30		50760

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAUGE HT.	DATE				FROM	TO	
37 15 36	119 56 42	SE 1 SS 18E	13760	586.44	2-24-69	NOV 59-DATE			1959		0.00 USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District as a flood warning station and is equipped with a telemark. Records for some years are insufficient for publication. Discharge measurements and partial flow records are available in DWR files. Drainage area is 201.7 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0*	0.0	153	40	1600	254							1
2	1.7	0.0	142 *	64	1350	425							2
3	2.0	0.0	136	86	1010	1710							3
4	2.3	0.0*	131	99	610	906 *							4
5	2.3	0.0	123	102	540	645							5
6	2.3	0.0	111	100	516	1390							6
7	2.4	0.0	61	95	822	892							7
8	2.5	0.0	30	85	1560	529							8
9	2.6	0.0	18	77	1590 *	419							9
10	3.1*	0.0	12	72	1400	351							10
11	3.2	0.0	10	78	1500	218							11
12	3.0	6.1	70	73	1290	156	N				N	N	12
13	2.9	22	61	69	871	120	O	N	N	N	O	O	13
14	2.5	43	34	80	616	82							14
15	2.5	62	20	168	632	58							15
16	2.2	78	11	496	663	43	F	F	F	F	F	F	16
17	1.9	88	5.0*	3460 *	472	33	L	L	L	L	L	L	17
18	1.7	96	1.8	3120	478	18	O	O	O	O	O	O	18
19	1.4	103	14	2560	580	8.0	W	W	W	W	W	W	19
20	1.2	111	37	2590	439	1.8							20
21	1.0	120	39	2330 *	373	0.3							21
22	0.8	126	38	1830	324	0.0							22
23	0.5	135	34	2200	266	0.0							23
24	0.4	149	33	2450	221	0.0							24
25	0.2	165 *	36	2540	166	0.0							25
26	0.1	192	41	2450	114	0.0							26
27	0.1	189	46	2200	120	0.0							27
28	0.0	185	44	1960	135	0.0							28
29	0.0	179	39	2060	0.0	0.0							29
30	0.0	169	38	2060	0.0	0.0							30
31	0.0		36	1890	0.0	0.0							31
MEAN	1.5	73.9	51.8	1209	724	266							MEAN
MAX.	3.2	192	153	3460	1600	1710							MAX.
MIN.	0.0	0.0	1.8	40	114	0.0							MIN.
AC. FT.	93	4400	3183	74350	40180	16380							AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
191	5270 14.40 1 17 1230	0.0	138600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00	USGS

Station located on left bank 2.8 miles downstream from San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.8	2.8	7.1	38	1010	17	8.4	2.8	0.9			1
2	0.0	1.8	2.8	6.8	32	405	17 *	8.1	2.6	0.7			2
3	0.0*	1.7	2.9	6.4	29	166	*	7.8	2.5	0.7*			3
4	0.0	1.7	2.8*	6.4	27	392	15	7.6*	2.2	0.6			4
5	0.0	2.0*	2.8	6.2	25	410	14	7.8	2.1	0.5			5
6	0.0	16	2.8	5.7*	23	190	14	7.3	1.9	0.4			6
7	0.0	24	2.9	5.7	21	132	14	7.1	1.9	0.4			7
8	0.0	6.8	3.0	6.8	19	109	13	7.3	2.2	0.3			8
9	0.0	4.4	3.7	15	18	89	13	7.1	10	0.2			9
10	0.0	3.4	3.4	214	20	84	12	6.4	6.4	0.2			10
11	0.0	2.9	3.0	62	23	67	12	6.2	4.4*	0.2			11
12	0.0	2.6	3.0	60 #	22	58	12	5.9	3.5	0.1	N	N	12
13	0.0	2.6	3.2	56 E	41	51	14	5.9	3.0	0.1	O	O	13
14	0.0	2.6	3.0	396 E	110	46	18	5.7	2.9	0.1			14
15	0.0	2.6	3.0	145 #	52	43	13	5.5	2.6	0.0			15
16	10	2.6	3.0	2270	40	39	12	5.1	2.6	0.0*	F	F	16
17	8.4*	2.5	3.0	320	207	37	12	4.9	2.4	0.0	L	L	17
18	4.0	2.5	3.0	144	89	34	11	4.7	2.1	0.0	O	O	18
19	2.8	2.4	6.0	90	63	31	11	4.5	1.7	0.0	W	W	19
20	2.4	2.4	22	77 *	50	29	10	4.5	1.3	0.0			20
21	2.2	2.5	29	197	41	28	11	4.4	1.1	0.0			21
22	2.0	2.6	43 *	129	35	26	12	4.2	1.0	0.0			22
23	1.9	2.6	13	83	31	25	10	4.2	0.9	0.0			23
24	1.9	2.6	9.2	111	28	24	10	3.8	0.9	0.0			24
25	1.9	2.6	82	74	25	23	9.8	3.5	0.9	0.0			25
26	1.9	2.6	40	58	24	23	9.8	3.4	0.9	0.0			26
27	2.0	2.6	18	123	22	21	10	3.2	1.2	0.0			27
28	1.9	2.8	12	86	48	19	9.2	3.2	1.4	0.0			28
29	1.9	2.8	9.8	62	19	19	9.2	3.2	1.2	0.0			29
30	1.9	2.8	8.6	50	19	19	8.9	3.2	1.0	0.0			30
31	1.8		7.6	43	18	18		3.0		0.0			31
MEAN	1.6	3.9	11.4	159	43.0	118	12.3	5.4	2.4	0.2			MEAN
MAX.	10	24	82	2270	207	1010	18	8.4	10	0.9			MAX.
MIN.	0.0	1.7	2.8	5.7	18	10	8.9	3.0	0.9	0.0			MIN.
AC. FT.	97	230	703	9751	2386	7273	734	331	142	11			AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE
29.9

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
4790	10.37	1	16
0930			

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
0.0		10	1
0000			

TOTAL ACRE FEET
21660

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL
Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map).											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)													
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
WATER YEAR		STATION NO.		STATION NAME									
1970		862100		MARIPOSA CREEK BELOW MARIPOSA RESERVOIR									
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	3.8	9.6	38	224	24	16	4.4	2.8			1
2		0	3.9	8.4	32	645	23	15	4.0	2.5			2
3		0	4.0	7.8	29	591	22	14	3.9	1.8			3
4		0	4.0	7.6	26	400	21	13	3.8	0.7			4
5		0	4.0	7.4	24	573	21	13	3.7	0			5
6		0	4.2	7.2	22	516	21	13	3.6	0			6
7		0	4.4	7.0	21	326	20	13	3.6	0			7
8		0	4.4	7.0	20	197	20	12	3.7	0			8
9		0	4.4	7.6	18	140	19	12	3.8	0			9
10		0	4.6	114	18	116	19	12	3.8	0			10
11		0.1	4.8	106	19	96	18	12	3.7	0			11
12	N	2.7	5.0	60	20	78	18	11	8.4	0	N	N	12
13	O	3.1	5.0	47	19	70	18	11	9.2	0	O	O	13
14		3.3	4.8	94	58	60	20	10	8.0	0			14
15		3.3	4.8	375	84	54	28	10	7.4	0			15
16	F	3.3	4.8	621	46	49	22	9.6	6.8	0	F	F	16
17	L	3.5	4.8	828	110	45	20	9.2	6.2	0	L	L	17
18	O	3.4	4.8	765	179	44	19	8.4	5.6	0	O	O	18
19	W	3.3	4.8	663	98	40	18	7.8	5.2	0	W	W	19
20		3.4	7.6	475	58	37	17	7.6	4.6	0			20
21		3.6	15	218	48	35	17	7.2	4.0	0			21
22		3.5	30	218	40	35	17	7.2	3.9	0			22
23		3.5	28	137	34	33	18	7.0	3.8	0			23
24		3.5	16	104	30	32	17	6.6	3.6	0			24
25		3.5	14	108	28	31	17	6.4	3.6	0			25
26		3.6	60	74	25	30	16	6.2	3.6	0			26
27		3.7	33	68	22	28	17	6.0	3.6	0			27
28		3.7	19	131	22	28	17	5.6	3.5	0			28
29		3.8	14	60		27	17	5.4	3.3	0			29
30		3.9	12	56		26	16	5.2	3.1	0			30
31			11	45		25		4.8		0			31
MEAN		2.2	11.1	176.0	42.4	149	19.2	9.6	4.6	0.3			MEAN
MAX.		3.9	60	828	179	645	28	16	9.2	2.8			MAX.
MIN.		0	3.8	7.0	18	25	16	4.8	3.1	0			MIN.
AC. FT.		130	684	10820	2360	9190	1140	589	276	15			AC. FT.

† - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
34.8	847		1	17		0		10	1	0000	25204

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT.	DATE						
37 16 52	120 09 45	NE 36 75 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1	2	3	3	9	54	5	2	0.5				1
2	1	1	3	3	9	94	5	2	0.5				2
3	1	0.5	3	3	8	75	5	2	0.5				3
4	1	1	3	2	8	42	5	2	0.5				4
5	1	2	3	2	8	96	4	2	0.5				5
6	1	3	3	2	7	84	4	2	0.5				6
7	1	11	3	2	7	38	4	2	0.5				7
8	0.5	7	3	2	7	28	3	2	0.5				8
9	0.5	3	3	3	7	25	3	2	1				9
10	0.5	2	3	B	7	24	3	2	1				10
11	0.4	2	3	7	8	21	3	2	2				11
12	0.3	2	3	6	8	18	3	1	1				12
13	0.1	2	3	8	10	16	3	1	1	N	N	N	13
14	0.5	2	3	27 a	27	14	5	2	1	O	O	O	14
15	3	2	3	36 a	13	13	5	2	1				15
16	5	2	3	91 a	11	12	4	1	1				16
17	2	2	3	110	53	11	3	1	0.5	F	F	F	17
18	4	2	3	102	24	11	3	1	0.5	L	L	L	18
19	3	2	3	88	18	10	3	1	0.5	O	O	O	19
20	3	2	3	35	15	10	3	1	0.5	W	W	W	20
21	3	2	4	28	13	9	3	1	0.5				21
22	3	3	5	24	12	9	3	1	0.4				22
23	3	3	4	18	11	9	3	1	0.1				23
24	3	3	4	16	10	9	3	1	0				24
25	3	3	4	14	9	B	3	1	0				25
26	3	3	5	12	9	B	3	0.5	0.1				26
27	3	3	4	13	8	7	3	0.5	0.5				27
28	2	3	3	14	10	6	3	0.5	0.5				28
29	3	3	3	11		6	3	0.5	0.5				29
30	3	3	3	10		6	3	0.5	0.3				30
31	3		3	10		6		0.5					31
MEAN	2.0	2.7	3.3	22.9	12.4	25.1	3.5	1.3	0.6				MEAN
MAX.	5	11	5	110	53	96	5	2	2				MAX.
MIN.	0.1	0.5	3	2	7	6	3	0.5	0.0				MIN.
AC. FT.	123	162	202	1408	686	1545	210	81	36				AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *
 a — SEE (a) BELOW

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
6.2	118		1	16		0		6	24		4453

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATE OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATE	
			CFS	GAGE HT.	DATE						
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950	338.22	USCGS	
Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.											
a Flow computed at Owens Reservoir.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	1.8	4.7	9.0	28	191	14	7.4	0.7	0.6			1
2	0	1.8	4.4	8.2	23	530	13	6.6	0.5	0.5			2
3	0	1.9	4.7	7.8	21	152	13	6.6	0.4	0.5			3
4	0	2.0	4.7	7.4	18	165	11	5.8	0.4	0.4			4
5	0	2.6	5.0	7.0	17	570	11	5.4	0.4	0.3			5
6	0	6.6	5.0	7.0	15	162	10	5.0	0.4	0.3			6
7	0	17	5.0	7.0	14	100	10	5.0	0.4	0.3			7
8	0	14	5.0	7.0	14	81	9.6	5.0	0.5	0.2			8
9	0	13	5.4	8.2	13	68	9.0	5.0	0.5	0.1			9
10	0	12	5.8	136	13	58	9.0	5.0	0.5	0.1			10
11	0	11	5.8	70	14	51	9.0	5.0	0.4	0			11
12	0	11	5.8	75	14	41	8.6	5.4	0.7	0	N	N	12
13	0	9.6	5.8	90	19	35	8.6	5.8	2.6	0	O	O	13
14	0	8.6	5.8	238	64	33	11	6.2	2.6	0			14
15	0.1	7.4	5.8	350	57	30	13	6.6	2.0	0			15
16	0.1	6.2	6.2	923	35	29	12	6.2	1.8	0	F	F	16
17	0.1	5.4	6.2	1000	218	28	11	5.8	1.6	0	L	L	17
18	0.1	5.0	6.2	168	123	26	10	5.0	1.4	0	O	O	18
19	0.2	5.0	7.0	87	72	25	9.0	4.4	1.2	0	W	W	19
20	0.3	5.0	8.2	74	51	24	8.6	3.5	1.0	0			20
21	0.5	4.7	11	169	39	24	8.6	2.9	0.7	0			21
22	1.7	4.7	26	162	30	22	8.6	2.3	0.6	0			22
23	1.4	4.7	35	88	26	21	8.6	2.0	0.6	0			23
24	1.5	4.7	21	72	22	20	8.6	1.9	0.6	0			24
25	1.6	4.7	31	75	20	19	8.2	1.7	0.7	0			25
26	1.6	4.7	117	58	18	18	7.8	1.6	0.8	0			26
27	1.7	4.4	38	58	17	17	8.2	1.5	0.7	0			27
28	1.7	4.7	21	90	17	17	8.6	1.4	0.7	0			28
29	1.8	4.7	15	57	15	15	8.2	1.2	0.7	0			29
30	1.8	4.7	12	41	15	15	7.8	1.0	0.6	0			30
31	1.8		10	33	14	14		0.9		0			31
MEAN	0.6	6.5	14.5	135	36.9	83.9	9.8	4.2	0.9	0.1			MEAN
MAX.	1.8	17	117	1000	218	570	14	7.4	2.6	0.6			MAX.
MIN.	0.0	1.8	4.4	7.0	13	14	7.8	0.9	0.4	0.0			MIN.
AC. FT.	36	384	892	8300	2050	5160	582	256	53	6.5			AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRS FEET
24.5	1330		1	16		0		10	1	0000	17719.5

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE			1955		320.50 USCGS

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	805525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	132	21	96	25	62	294	69	124	58	124	118	132	1
2	132	20	100	21	55	1390	101	100	52	116	116	130	2
3	124	19	100	19	50	467	69	96	52	101	122	100	3
4	114	19	100	17	46	441	55	92	79	90	104	100	4
5	84	51	100	15	43	1800	66	100	98	94	90	90	5
6	95	142	95	14	39	612	61	107	110	92	95	110	6
7	110	133	89	13	38	340	54	104	118	89	94	130	7
8	102	126	63	13	36	360	70	114	116	92	83	120	8
9	114	116	77	14	34	194	79	118	122	106	92	98	9
10	110	110	72	19	34	156	76	108	114	107	102	89	10
11	116	104	69	114	34	132	75	116	107	102	106	72	11
12	114	95	63	74	34	104	80	114	118	100	83	89	12
13	110	86	56	77	35	84	102	112	138	98	89	114	13
14	116	84	51	144	45	69	116	110	134	95	82	114	14
15	112	78	46	974	96	63	118	110	116	107	78	110	15
16	104	83	40	1850	67	59	136	110	102	107	107	96	16
17	54	88	35	2080	326	55	130	114	108	110	101	82	17
18	40	82	32	715	348	50	114	98	107	132	102	80	18
19	38	83	32	310	148	61	118	102	107	112	124	76	19
20	34	86	30	248	96	110	110	101	112	104	100	88	20
21	34	88	30	302	73	184	106	89	112	96	120	98	21
22	30	89	31	527	63	204	114	89	110	83	124	90	22
23	27	94	36	272	54	192	122	96	102	90	120	89	23
24	26	96	49	186	48	198	150	124	88	112	110	92	24
25	24	98	42	166	43	204	150	124	80	107	101	88	25
26	23	100	90	130	39	106	146	106	95	102	110	101	26
27	23	100	84	106	36	112	150	100	110	102	116	98	27
28	22	98	53	160	35	78	160	88	110	94	116	84	28
29	22	100	41	122	70	70	156	82	122	88	120	83	29
30	21	100	34	86	74	74	140	76	132	102	138	79	30
31	21		29	71		71		74		110	138		31
MEAN	71.9	86.5	60.8	287	73.5	269	106	103	104	102	107	97.4	MEAN
MAX.	132	142	100	2080	348	1800	160	124	138	132	138	132	MAX.
MIN.	21	19	29	13	34	50	54	74	52	83	78	72	MIN.
AC. FT.	4420	5150	3740	17620	4080	16530	6330	6340	6210	6280	6550	5800	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACFE PER
123	3250	13	89050
	GAGE HT	GAGE HT	
	MO DAY TIME	MO DAY TIME	
	1 16	1 7	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1'4 SEC. T & R M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 18 34	120 26 38	SW21 7S 14E	5,400	16.90	3-16-58	NOV 56-DATE			1956		75.00 ASSUMED

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	8053	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	179	44	128	61	96	79	102 E	126	65	109	117	109	1
2	186	43	128	58	87	207	111	112	68	114	144	111	2
3	203	42	128	55	81	90	114	99	65	123	131	119	3
4	210	40	126	54	77	425	103	98	73	100	107	112	4
5	170	42	124	53	73	2160 E	106 E	98	100	100	118	105	5
6	161	197	112	54	70	734 E	109 E	108	130	94	107	102	6
7	192	246	104	51	68	525	122 E	110	85	90	97	129	7
8	194	203	100	51	65	325	148	106	108	83	92	114	8
9	212	179	95	52	62	227	163	91	109	108	100	78	9
10	216	167	89	64	63	185	156	104	116	104	130	93	10
11	193	168	87	125	64	158	128	114	104	87	140	83	11
12	177	207	83	140	62	137	124	100	109	99	115	99	12
13	159	198	76	116	64	121	131	87	136	134	110	104	13
14	129	190	71	143	66	98 E	149	84	126	90	122	111	14
15	162	153	67	1300 E	101	88 E	172	112	149	83	111	133	15
16	271	114	62	1230 E	101	83 E	178	15	92	123	125	132	16
17	229	110	57	2500 E	110	69 E	176 E	118	104	136	114	116	17
18	124	109	57	860 E	485	58 E	166 E	142	111	150	94	125	18
19	71	109	58	510	208	49 E	155 E	87	91	148	96	116	19
20	58	109	57	340	221	64 E	144 E	104	96	111	98	101	20
21	54	113	64	380	106	208	129 E	92	89	80	129	88	21
22	53	116	57	815	92	251 E	128	73	99	77	153	108	22
23	48	129	69	380	83	185 E	135	92	79	111	132	96	23
24	51	131	72	249	78	186 E	194	99	74	84	115	107	24
25	49	131	67	203	73	171 E	199	142	76	110	111	133	25
26	48	126	136	181	70	164 E	180	131	97	93	102	114	26
27	54	126	88	153	67	150 E	188	132	105	89	108	115	27
28	48	126	71	177	65	99	164	125	139	88	95	114	28
29	48	130	62	173	73	99 E	161	102	139	102	108	102	29
30	47	128	61	126	100 E	181	97	107	112	112	104	103	30
31	44		61	106	101 E		61		139	139	125		31
MEAN	131	131	84	347	102	261	146	105	101	106	115	109	MEAN
MAX	271	246	136	2500 E	485	2160 E	199	142	149	150	153	133	MAX
MIN	44	40	57	51	62	49	102	61	65	77	92	78	MIN
AC. FT.	8053	7783	5191	21342	5669	16058	8660	6448	6031	6488	7045	6474	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
145		9.34	1	17	0800						10520

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R N D B & W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD FROM TO	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE						
37 15 21	120 39 08	NE 9 8S 12E				1930-					
Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.											
Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.											
Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey; topographic map). Monthly runoff record dating back to 1947 are published in Bulletin 137-69.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	10	228	1.2	0.4					1
2				0	8.5	362	1.1	0.3					2
3				0	6.4	70	1.0	0.2					3
4				0	6.1	245	0.9	0					4
5				0	5.2	474	0.9	0					5
6				0	4.3	112	0.8	0					6
7				0	3.8	60	0.7	0					7
8				0	3.6	42	0.6	0					8
9				0	3.4	32	0.5	0					9
10				4.4	3.2	29	0.4	0					10
11				3.8	3.4	23	0.4	0					11
12	N	N	N	2.6	3.4	18	0.2	0	N	N	N	N	12
13	O	O	O	2.6	3.6	15	0.4	0	O	O	O	O	13
14				241	21	12	0.6	0					14
15				176	14	10	0.7	0					15
16	F	F	F	940	7.5	9.5	0.8	0	F	F	F	F	16
17	L	L	L	299	210	7.5	0.8	0	L	L	L	L	17
18	O	O	O	43	25	5.5	0.6	0	O	O	O	O	18
19	W	W	W	55	16	4.9	0.5	0	W	W	W	W	19
20													20
21				128	12	4.3	0.4	0					21
22				102	9.0	3.8	0.4	0					22
23				43	6.7	3.6	0.4	0					23
24				32	5.8	3.4	0.4	0					24
25				30	4.9	3.2	0.4	0					25
26				22	4.0	2.8	0.4	0					26
27				30	3.6	2.4	0.4	0					27
28				36	3.8	1.9	0.4	0					28
29				38		1.8	0.4	0					29
30				15		1.7	0.4	0					30
31				12		1.6		0					31
MEAN				75.8	16.7	57.9	0.6	0.03					MEAN
MAX.				940	210	474	1.2	0.4					MAX.
MIN.				0	3.2	1.6	0.2	0.0					MIN.
AC. FT.				4660	929	3560	35	1.8					AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
12.7	1400		1	16		0		10	1	0000	9186

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.S.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DAT			1950		260.60 USCGS
Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	807400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	141	40	325	112	2220	194	74	194	72	31	30	41	1
2	159	35	281	110	1880	486	64	189	71	26	28	40	2
3	167	35	260	109	1690	1530	62	181	62	21	27	41	3
4	170	34	255	126	1290	2350	62	170	57	28	28	40	4
5	155	33	248	145	962	2000	56	125	52	39	33	44	5
6	132	50	235	151	857	2480	53	106	50	39	33	59	6
7	130	221	221	153	849	2710	55	87	50	39	33	51	7
8	147	260	202	149	1170	1950	57	75	47	26	33	53	8
9	165	233	172	145	1690	1400	68	74	50	21	35	71	9
10	180	200	149	139	1600	1170	74	82	47	20	31	96	10
11	189	180	145	159	1560	978	67	121	40	21	31	86	11
12	174	178	136	348	1580	787	62	125	41	23	31	56	12
13	157	207	134	348	1390	640	62	121	44	18	33	43	13
14	137	214	132	314	1040	499	65	115	56	17	37	40	14
15	139	214	124	471	857	386	95	111	52	18	42	41	15
16	235	196	115	1100	922	321	139	110	50	17	41	45	16
17	415	184	110	2250	857	234	140	105	60	17	41	66	17
18	375	191	107	4540	860	202	142	109	47	21	50	68	18
19	196	221	102	4600	986	153	137	109	40	25	52	64	19
20	81	243	97	3940	887	128	143	102	45	37	40	60	20
21	55	223	102	3720	879	135	140	85	41	37	32	60	21
22	47	221	112	3400	581	300	133	69	37	25	33	49	22
23	41	231	110	2940	488	313	125	61	38	26	30	47	23
24	42	240	105	2900	374	275	114	62	37	26	29	43	24
25	41	266	115	2950	311	142	108	62	37	32	32	47	25
26	36	273	128	2990	242	135	125	56	35	32	36	56	26
27	42	271	139	2890	181	110	149	70	35	27	37	55	27
28	56	271	174	2620	158	99	192	70	35	27	38	60	28
29	53	268	149	2420	88	88	192	75	34	26	39	65	29
30	53	320	128	2480	84	84	195	74	33	25	41	61	30
31	49	115	115	2450	81	81		70		27	42		31
MEAN	134	192	159	1651	1014	721	105	102	46.5	26.3	35.4	54.9	MEAN
MAX	415	320	325	4600	2220	2710	195	194	72	39	52	96	MAX
MIN	36	33	97	109	158	81	53	56	33	17	27	40	MIN
AC FT	8249	11410	9773	101500	56310	44350	6248	6278	2767	1615	2178	3269	AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 351	DISCHARGE 4910 GAGE HT 72.16 MO 1 DAY TIME 2300	DISCHARGE 15 GAGE HT 62.28 MO 1 DAY TIME 1700	ACRE FEET 253900

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF. DATUM	
			CF5	GAGE HT.	DATE						
37 17 42	120 51 00	26 75 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961	0.00	USCGS	
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B00975	PANOCHIE DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29 *	22 E	19	22	29	56	67	66	67	72	77	50	1
2	22	32 E	22 *	22	28	52	70	66	64	69	76	52 *	2
3	22	25 E	23	24	29	40	71	66	60	64	76	56	3
4	24	21 #	23	22	29	49	67	66	60	62	73	53	4
5	20	26	26	22	28 *	62	62	66	58	61	65	52	5
6	26	47	22	22	26	38	63	64	58	63 *	68	49	6
7	24	46	23	24	28	36	65 *	61	61	61	70	42	7
8	29	34	20	24 *	35	37	67	63	60	59	69	43	8
9	27	34	20	24	35	37	67	62	62	63	70	42	9
10	24	28 *	24	18	37	32	68	65	65	63	68	41	10
11	22	25	22	27	35	29	65	68	67	66	66	49	11
12	22	24	20	25	36	30	65	71	68	62	62	49	12
13	24	27	19	20	37	26 *	64	69	70	68	67	45	13
14	23	33	18	32	37	26	66	69	70	70	69	38	14
15	27	33	20	39	39	22	63	67	71	68	68	31	15
16	32	30	21	48	40	24	64	61	70	66	68	29 *	16
17	28	35	22 *	28	37	25	66	62	65	70	71	33	17
18	23	28	20	26	37	24	60	61	59	69	73	40	18
19	23	27	22	24	38 *	32	55	60	61	67	74	41	19
20	21	31	23	24	41	27	56	64	63	63	71	33	20
21	21 *	27 *	19	24	35	28	57	70	64	57	70	34	21
22	20	31	20	24	34	34	59	70	68	66	72	36	22
23	23	34	23	28	38	34	52	68	67	63	69	37	23
24	23	33	22	24	35	36	52	67	68	63	63	33	24
25	22	30	22	26	30	38	62	67	69 *	68	61	26	25
26	20	31	17	28	38	55 *	66	64	69	71	53	31	26
27	28	26	17	29	37	58	68	67	73	71	53	31	27
28	23	22	16	22	40	61	68	67	75	65	55	24	28
29	25	20	17	24	45	65	64	65	74	66	54	23	29
30	25 E	21	18	26	66	66	66	67	71	69	54	27	30
31	26 E	18	18	28	67	67	67	69	74	74	49	27	31
MEAN	24.1	29.8	20.6	25.7	34.4	40.3	63.5	65.7	66.0	65.8	66.3	39.0	MEAN
MAX.	32	47	26	48	41	71	71	71	75	74	77	56	MAX
MIN.	20	20	16	18	26	22	52	60	58	57	49	23	MIN
AC FT.	1484	1771	1265	1579	1910	2477	3779	4042	3921	4044	4074	2321	AC FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET
45.1	DISCHARGE	GAGE HT.	MO	DAY	DISCHARGE	GAGE HT.	MO	DAY	32670
	78	7.73	8	1	15	1.87	12	28	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	OATE						
36 55 25	120 41 19	NW 5 12S 12E	69. 84.4	9.19 9.04	11-24-65 5-31-69	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959	-2.00	LOCAL	

Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).

a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	171	82	142	77	216	200	237	186	116	104	93	140	1
2	166	90	140	75	205	217	228	193	90*	111*	111	144*	2
3	153	104	139	68	197*	230	222	175	57	138	113	146	3
4	139	100	139	67	185	242	222	170	73	150	112*	129	4
5	116	101	137	68	178	245*	238	172*	76	157	110	115	5
6	113	113	134	56*	182	275	245	163	89	158	78	120	6
7	111	130	133	58	186	290	238*	155	90	132	90	113	7
8	104*	142	135	66	184	273	224	158	93	110	128	95	8
9	91	132	136*	76	186	254	213	178	132	79	140	98	9
10	84	113	141	93	186	244	199	190	162	85	143	90	10
11	82	112*	146	108	190	237	210	200	156	100	150	75	11
12	87	112	140	133	176	234	215	193	146	90	147	76	12
13	96	143	131	150	154	234	222	171	134	89	127	90	13
14	79	145	133	162	167	226	224	165	120	95	134	96	14
15	89	145	130	177	174	219	215	168	130	80	139	90	15
16	108	145	117	188	171	212	211	165	129	68	143	98	16
17	108	146	117	202	170	214	195	146	118	70	150	74	17
18	107	143	118	253	168	209	178	147	106	80	150	63	18
19	94	140	121	296	188	210	169	137	118	90	119	63	19
20	87	136	125	279	212	207	163	128	115	94	98	76	20
21	74	145	119	265	210	205	168	128	119	97	123	187	21
22	72	146	135	262	215	198	166	139	145	77	156	102	22
23	97	146	140	251*	219	193	162	134	145	62	148	116	23
24	102	146	143	244	212	172	157	105	117	72	138	119	24
25	108	145	134	240	207	160	163	105	90	84	125	105	25
26	107	144	136	239	230	161	179	100	60	78	108	113	26
27	101	143	132	233	224	156	181	92	86	76	105	103	27
28	105	143	125	225	186	180	196	105	94	90	111	78	28
29	103	144	108	215	199	205	205	97	95	100	101	110	29
30	100	144	99	219	210	193	108	129	93	93	101	114	30
31	88	82	82	222	229	229	91	91	106	112	112	112	31
MEAN	105	131	129	170	192	217	201	147	111	97.3	123	100	MEAN
MAX.	171	146	146	296	230	290	245	200	162	158	156	146	MAX.
MIN	72	82	82	56	154	156	157	91	57	62	78	78	MIN
AC. FT.	6430	7775	7948	10450	10670	13360	11980	9053	6605	5980	7538	5986	AC FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	MO	DAY	TIME	TOTAL ACR. FEET
143	299	67.62	1	19	1200	48	64.12	3	3	1200	103800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 14 52	120 51 04	SE10 8S 10E	419	71.35	6-10-69	MAR 68-DATE			1968		0.00 USGS
Station located at Lander Avenue Bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.2	0.3	0.3	4.0	7.7	74	2.9	2.8	1.1	0.6	0.3	0.2	1
2	0.2	0.3	0.3	3.8	2.9*	41	2.9	2.8	1.0	0.5*	0.3	0.2	2
3	0.2	0.3	0.3	3.7	5.6	17	2.9	2.8	1.0*	0.5	0.3	0.2*	3
4	0.2	0.3	0.3*	3.5	6.2	21	2.8	2.5	0.9	0.5	0.3*	0.2	4
5	0.2	0.6	0.3	3.2*	5.6	15	2.8	2.5*	0.8	0.5	0.2	0.2	5
6	0.2*	3.1	0.3	3.2	5.2	16	2.9*	2.5	0.8	0.4	0.2	0.2	6
7	0.2	0.8	0.3	3.2	5.0	14	2.9	2.5	0.8	0.4	0.2	0.2	7
8	0.2	0.6*	0.5	3.1	4.8	13	2.7	2.4	1.3	0.4	0.3	0.2	8
9	0.2	0.5	0.4	7.8	4.8	11	2.5	2.5	3.2	0.4	0.3	0.2	9
10	0.2	0.5	0.4	5.6	4.6	12	2.8	2.3	1.6	0.4	0.2	0.2	10
11	0.2	0.4	0.4	4.0	5.0	7.9*	2.7	2.2	1.4	0.4	0.2	0.2	11
12	0.2	0.4	0.4	4.0	8.4	8.6	2.7	2.2	1.5	0.4	0.2	0.2	12
13	0.2	0.4	0.4	4.0	15	7.9	3.1	2.2	1.4	0.4	0.2	0.2	13
14	0.2	0.4	0.3	94 *	20	7.5	4.5	2.1	1.0	0.4	0.2	0.2	14
15	0.7	0.4	0.3	28	8.6	7.0	4.8	2.0	1.0	0.4	0.2	0.2	15
16	1.0	0.4	0.3	337	11	6.6	4.6	2.0	0.9	0.3	0.2	0.2	16
17	0.5	0.4	0.3	56	37	6.4	3.7	1.7	0.8	0.3	0.2	0.2	17
18	0.3	0.4	0.3	38	16	5.6	3.2	1.6	0.7	0.3	0.2	0.2	18
19	0.3	0.4	0.8	22	12	5.4	3.5	1.5	0.7	0.3	0.2	0.2	19
20	0.3	0.4	1.1	9.6	10	5.0	3.2	1.6	0.7	0.2	0.2	0.2	20
21	0.3	0.4	2.0	96 *	8.9	4.6	3.2	1.7	0.6	0.2	0.2	0.2	21
22	0.2	0.4	1.0	36	7.9	4.5	3.1	1.5	0.6	0.2	0.2	0.2	22
23	0.2	0.4	0.7	27	7.2	4.3	2.9	1.5	0.6	0.2	0.2	0.2	23
24	0.3	0.4	1.0	36	6.8	4.0	2.8	1.4	0.6	0.3	0.2	0.2	24
25	0.3	0.4	17	18	6.4	4.0	2.9	1.3	0.6	0.3	0.2	0.2	25
26	0.3	0.4	5.2	13	6.0	3.8	3.4	1.4	0.8	0.3	0.2	0.3	26
27	0.3	0.3	2.7	22	5.6	3.5	4.0	1.4	0.9	0.3	0.2	0.4	27
28	0.3	0.3	2.0	15	13	3.4	3.5	1.4	0.8	0.3	0.2	1.0	28
29	0.3	0.3	1.6	12		3.5	3.1	1.4	0.7	0.3	0.2	0.9	29
30	0.3	0.3	2.3	9.1		3.4	2.9	1.4	0.7	0.3	0.2	3.0	30
31	0.3		4.3	8.9		3.2		1.2		0.3	0.2		31
MEAN	0.3	0.5	1.5	30.0	9.2	11	3.2	1.9	1.0	0.4	0.2	0.4	MEAN
MAX.	1.0	3.1	17	337	37	74	4.8	2.8	3.2	0.6	0.3	3.0	MAX.
MIN.	0.2	0.3	0.3	3.1	2.9	3.2	2.5	1.2	0.6	0.2	0.2	0.2	MIN.
AC FT.	18	30	95	1846	510	683	190	120	59	22	13	21	AC FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN
DISCHARGE
5.0

MAXIMUM			
DISCHARGE	GAGE HT.	MO	DAY TIME
826	7.30	1	16 0750

MINIMUM			
DISCHARGE	GAGE HT.	MO	DAY TIME
0.1	1.16	8	14 1800

TOTAL
ACRE FEET
3607

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965		LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville.
Maximum discharge of record from rating curve extended above 758 cfs.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.5	0.5	1.8	10	176	4.4	1.9	0.6	0.5	0.1	0.0	1
2	0.0	0.5	0.5	1.6	85 *	108	4.1	1.9	0.5	0.4*	0.0	0.0	2
3	0.0	0.5	0.6	1.8	7.4	44	3.8	1.9	0.5*	0.4	0.0	0.0*	3
4	0.0	0.5	0.6*	1.6	7.0	81	3.4	1.8	0.5	0.3	0.0*	0.0	4
5	0.0	1.4	0.6	1.6*	6.4	71	3.2	1.6*	0.5	0.2	0.0	0.0	5
6	0.0*	14	0.6	1.5	6.1	47	3.2*	1.6	0.5	0.2	0.0	0.0	6
7	0.0	4.6	0.6	1.5	5.8	33	3.2	1.6	0.5	0.2	0.0	0.0	7
8	0.0	2.1*	0.8	1.6	5.4	29	3.2	1.6	0.9	0.2	0.0	0.0	8
9	0.1	1.5	1.3	4.6	5.2	23	3.0	1.6	3.2	0.2	0.0	0.0	9
10	0.1	1.3	1.1	27	5.2	22	3.0	1.6	1.5	0.2	0.0	0.0*	10
11	0.1	1.1	0.9	11	5.2	18 *	2.8	1.5	1.1	0.2	0.0	0.0	11
12	0.1	0.9	0.8	11	6.7	15	2.8	1.5	1.0	0.2	0.0	0.0	12
13	0.1	0.8	0.8	11	26	14	3.4	1.5	1.0	0.2	0.0	0.0	13
14	0.1	0.8	0.9	243 *	50	13	4.4	1.5	1.0	0.2	0.0	0.0	14
15	1.2	0.8	0.9	40	20	12	3.4	1.5	1.0	0.1	0.0	0.0*	15
16	3.2	0.9	0.9	523 *	18	11	3.0	1.3	0.9	0.2	0.0	0.0	16
17	1.9	0.8	0.8	81	150	11	2.8	1.1	0.8	0.1	0.0*	0.0	17
18	0.8	0.8	0.8	35	41	9.3	2.4	1.1	0.8	0.1	0.0	0.0	18
19	0.5	0.8	3.4	19	25	8.5	2.6	1.1	0.8	0.1	0.0	0.0	19
20	0.4	0.8	6.4	16	19	8.2	2.4	1.1	0.7	0.1	0.0	0.0	20
21	0.4	0.7	16	186 *	15	7.8	2.4	1.3	0.6	0.1	0.0	0.0	21
22	0.3	0.7	8.2	55	13	7.0	2.4	1.1	0.6	0.1	0.0	0.0	22
23	0.3	0.7	3.4	26	12	6.7	2.2	1.0	0.5	0.1	0.0	0.0	23
24	0.4	0.7	4.9	52	11	6.4	2.1	0.8	0.5	0.1	0.0	0.0	24
25	0.4	0.7	58	26	8.9	6.1	2.1	0.8	0.4	0.1	0.0	0.0	25
26	0.4	0.7	9.8	18	8.5	5.8	2.4	0.8	0.8	0.1	0.0	0.0	26
27	0.4	0.7	4.6	35	8.2	5.2	2.6	0.8	0.8	0.1	0.0	0.0	27
28	0.4	0.7	3.2	23	9.8	5.2	2.2	0.8	0.7	0.0	0.0	0.1	28
29	0.4	0.6	2.4	18		4.9	2.2	0.7	0.7	0.0	0.0	0.0	29
30	0.5	0.5	2.2	14		4.9	1.9	0.6	0.6	0.1	0.0	0.1	30
31	0.5		1.9	12		4.4		0.6		0.1	0.0		31
MEAN	0.4	1.4	4.5	48.4	18.4	26.4	2.9	1.3	0.8	0.2	0.0	0.0	MEAN
MAX	3.2	14	58	523	150	176	4.4	1.9	3.2	0.5	0.1	0.1	MAX
MIN	0.0	0.5	0.5	1.5	5.2	4.4	1.9	0.6	0.4	0.0	0.0	0.0	MIN
AC FT.	26	84	275	2974	1020	1623	173	79	42	10	0	0	AC FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL	
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET	
8.7	1080	5.52	1	16	0930	0.0		10	1	0000	6313	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE			1958		0.00 LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	805170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	256	1390	1270	1200	136	632	106	88	72	41	79	48	1
2	261	963	1270 *	1140	141	1240	134 *	87	69 *	45 *	74	66 *	2
3	314	1340	1260	1140	1720 *	1990 *	141	103	52	54	60 *	56	3
4	363	1400	1290	1130	1810	2240	158	88 *	71	53	71	45	4
5	360	1410	1360	1140 *	1830	2450	156	80	76	53	74	62	5
6	370	1410	1370	1130	1840	2360	147	76	43	60	69	83	6
7	360	1400	1370	1030	1820	2390	150	70	54	57	73	66	7
8	367	1370	1380	784	1840	2380	115	85	65	53	78	60	8
9	376 *	1370	1380	826	1750	2400	129	83	74	65	73	73	9
10	383	1360	1380	952	1410	1080	109	85	57	79	59	73	10
11	383	1320 *	1140	444	1420	1470	107	87	52	79	53	77	11
12	370	1580	918	193	1340	1160	109	81	59	76	57	84	12
13	400	1800	907	141	1420	464	110	75	54	71	73	56	13
14	614	1770	912	205	1450	341	112	72	54	79	71	73	14
15	1170	615	918	176	1450	338	127	75	46	71	62	81	15
16	1340	351	918	372	1460	317	120	80	53	73	54	65	16
17	1370	1130	929	187	1740	205	123	76	74	69	54	56	17
18	1370	1300	779	158	1910	216	110	80	50	73	59	31	18
19	1360	1300	605	148	1920	223	98	74	56	71	57	36	19
20	1400	1300	588	147	1860	214	101	70	69	66	48	38	20
21	1570	1300	592	170	1020	212	103	72	62	73	53	41	21
22	1780	503	739	152 *	1030	207	101	64	63	81	59	45	22
23	1830	314	1070	143	1010	183	101	58	59	76	54	40	23
24	1820	1100	1390	139	1440	160	91	52	79	71	49	54	24
25	1790	1260	1380	136	1450	127	94	52	74	68	56	60	25
26	1830	1260	1380	132	1020	139	91	59	71	73	29	63	26
27	1600	1280	1400	136	1010	130	103	78	74	76	41	53	27
28	1370	1280	1400	137	592	130	114	76	71	83	41	49	28
29	1370	1280	1600	139		114	101	71	71	78	32	56	29
30	1370	1280	1830	137		118	83	74	76	76	37	83	30
31	1390		1830	137		123		70		65	33		31
MEAN	997	1225	1179	458	1387	831	115	75.5	63.3	68.0	57.5	59.2	MEAN
MAX.	1830	1800	1830	1200	1920	2450	158	103	79	83	79	84	MAX.
MIN.	256	314	588	132	136	114	83	52	43	41	29	31	MIN.
AC. FT.	61300	72860	72510	28170	77040	51080	6831	4643	3769	4181	3535	3523	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	DISCHARGE	TOTAL
538	2990	GAGE HT 10.94 MO 3 DAY 2130	21	5.64	6 18 1900	389400

LOCATION			#MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1.4 SEC. T & R N D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE			1958		221.12 USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	289	1040	1360	1470	224	868	219	124	98	81	72	67	1
2	277	891	1360 *	1190 *	222	1320	209	123	93	69 *	77	64 *	2
3	268	951	1390	1190	845	2010 *	235	129	95	62	80 *	70	3
4	331	1570	1400	1180	1720	2090	249	129 *	90	59	74	78	4
5	381	1640	1550	1180	1800	2880	265	127	88	60	79	85	5
6	397	1680	1660	1180	1870	2420	266	120	106	57	79	84	6
7	426	1590	1700	1180	1900	2360	221	110	102	64	77	98	7
8	386	1500	1730	1010	1940	2340	238	102	96	68 E	87 E	112	8
9	415 *	1460	1750	954	1980 *	2320	207	98	115	74 E	82 E	99	9
10	420	1430	1770	1020	1740	1930	179	113	152	82 E	87 E	96	10
11	407	1380 *	1750	1030	1640	1220	161	120	153	84 E	89	122	11
12	397	1360	1040	521	1660	1510	160	118	112	88 E	73	122	12
13	391	1720	921	427	1600	842	169	118	81	84 E	69	136	12
14	428	1680	920	319	1790	594	168	105	74	81 E	66	134	14
15	762	1230	944	630	1790	527	166	110	68	78 E	77	134	15
16	1390	757	948	786	1760	502	184	122	66	76 E	78	138	16
17	1320	1370	967	784	2060 *	436	179	127	62 *	83 E	83	138	17
18	1300	1360	980 *	343	2240	356	169	138	84	80 E	67	128	18
19	1270	1070	703	314	2170	341	163	133	93	78 E	58	109	19
20	1260	790	650	291 *	2150	330	146	125	72	77 #	70	111	20
21	1270	648	667	377	1710	310	141 *	116	76	65	65	96	21
22	1580	471	718	580	1310	302	134	100	105	70	55	99	22
23	1600	527	963	304	1300	282	126	104	88	72	58	112	23
24	1630	561	970	258	1320	249	129	96	78	73	66	122	24
25	1550	1430	1060	240	1960	206	127	93	76	71	64	109	25
26	1530	1360	1110	229	1330	206	127	81	75	68	55	110	26
27	1520	1300	1150	224	1240	215	143	76	74	78	56	118	27
28	1120	1280	1190	249	1070	211	138	84	80	82	58	124	28
29	1050	1320	1240	211	216	216	146	98	87	70	66	122	29
30	1020	1360	1310	226	210	210	150	89	79	67	60	126	30
31	1050		1550	225	205	205		95		72	67		31
MEAN	885	1224	1214	649	1584	962	177	110	90.6	73.3	70.8	108	MEAN
MAX	1630	1720	1770	1470	2240	2880	266	138	153	88 E	89	136	MAX
MIN	268	471	650	211	222	205	126	76	62	57	55	64	MIN
AC FT	54420	72830	74620	39910	87950	59120	10540	6789	5391	4508	4352	6452	AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
590	3390	17.75	3	15	0930	48	10.39	8	26	1515	426,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE						
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DAT	APR 41-JUL 41	1950 1962 1962	96.24 86.24	USCGS USCGS	
Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions.											
a Reflects present datum.											

DAILY MEAN DISCHARGE

WATER YEAR	STATION NO.	STATION NAME
1970	B00525	MUSTANG CREEK NEAR BALLICO

(IN CUBIC FEET PER SECOND)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.0	0.0		0.0		0.0	0.0	0.4	2.2	0.0*		0.0	1
2	0.0	0.0		0.0*	*	1.4	0.0*	0.1	2.1*	0.0		0.0*	2
3	0.0	0.0		0.0		1.9	0.0	0.0	0.0	0.0		0.0	3
4	0.0	0.0		0.0		2.9*	0.0	0.0*	0.0	0.0		0.2	4
5	0.0	0.0		0.0		9.1	0.0	0.0	0.0	0.0		0.6	5
6	0.0	2.9		0.0		5.6	0.0	0.0	0.0	0.0		0.2	6
7	0.0	4.7		0.0		2.8	0.0	0.0	0.0	0.0		0.0	7
8	0.8	2.6		0.0		1.5	0.7	0.0	0.0	0.0		0.0	8
9	0.8	1.8		0.0		0.8	0.0	0.0	0.0	0.0		0.0	9
10	0.0	1.0		0.0		0.3	0.0	0.0	0.0	0.0		0.6	10
11	0.0	0.4		0.0		0.0	0.3	0.0	0.0	0.0		0.3	11
12	0.0	0.0	N	0.1	N	0.0	3.4	0.0	0.0	0.0	N	0.2	12
12	0.0	0.0	O	0.4	O	0.0	3.3	0.0	0.0	0.0		0.2	13
14	0.0	0.0		0.9		0.0	1.9	0.0	0.0	0.0	*	0.0*	14
15	0.1	0.0		5.1		0.0	0.0	0.0	0.0	0.0		0.9	15
16	3.0	0.0		6.3*	F	0.0*	0.0	0.0	0.0	0.0	F	1.3	16
17	3.1	0.0	F	5.6	L	0.0	0.0	0.0	0.0	0.0	L	1.1	17
18	2.6	0.0	O	3.4	O	0.0	0.0	0.0*	0.0*	0.0	O	0.6	18
19	1.6	0.0	W	1.9	W	0.0	0.0	0.1	0.0	0.0	W	0.0	19
20	0.7	0.0		1.5		0.0	0.0	1.3	2.0	0.6		0.0	20
21	0.1*	0.0		2.9		0.0	0.0*	2.1	0.0	0.1*		0.0	21
22	0.0	0.0		3.8*		0.0	0.0	2.4	0.0	0.0		0.0	22
23	0.0	0.0		2.4		0.0	0.0	0.9	0.0	0.0		0.0	23
24	0.0	0.0*		1.4		0.0	0.0	1.0	0.0	0.0		0.9	24
25	0.0	0.0		0.8		0.0	0.0	1.9	2.0	0.0		1.0	25
26	0.0	0.0		0.3		0.0	0.0	2.2	0.0	0.0		0.2	26
27	0.0	0.0		0.1		0.0	2.3	1.3	0.0	0.0		0.0	27
28	0.0	0.0		0.0		0.0	1.9	2.1	0.0	0.0		0.0	28
29	0.0	0.0		0.0		0.0	0.1	3.1	0.0	0.0		0.0	29
30	0.0	0.0		0.0		0.0	0.8	4.4	0.0	0.0		0.0	30
31	0.0			0.0		0.0		3.2		0.0			31
MEAN	0.4	0.4		1.2		0.8	0.5	0.9	0.1	0.0		0.3	MEAN
MAX.	3.1	4.7		6.3		9.1	3.4	4.4	2.2	0.6		1.3	MAX.
MIN.	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0		0.0	MIN.
AC. FT.	27	27		73		52	29	53	9	1		16	AC.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
0.4	9.9	2.16	3	5	1100	0.0		10	2	0000	287

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 58	120 39 48	NW16 S8 12E	281	5.63	1-21-69	NOV 65 ^a -DATE		1965		0.00	LOCAL
Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map).											
a Station installed in November 1965, but data were insufficient to publish prior 1969. Discharge measurements and partial gage height records are available in DWR files.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO		STATION NAME	
1970		B08720		ORESTIMBA CREEK NEAR CROWS LANDING	

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18	24	0.1	0.1	0.1	246							1
2	6.6	28	0.1	0.2	0.1	280	26	31	38	22	15	17	2
3	2.9	36	0.1	0.5	0.1*	82	5.2	23	27	27	11	14	3
4	2.6	30	0.1	0.1	0.1	91	4.2	18	16	23 *	25	18	4
5	2.9	31	0.1*	0.0*	0.0	267 *	6.1	25	15	30	19	16	5
								12	17	29	11	17	
6	2.3	26	0.1	0.0	0.0	142	7.7*	13	16	40	21	55	6
7	3.9	32	0.1	0.1	0.1	75	1.6	15	37	9.2	14	50	7
8	4.3*	24	0.1	0.3	0.1	66	2.4	17	32 *	7.5	18	9.0	8
9	2.4	12	0.1	0.3	0.1	66	6.8	13	23	14	27	15	9
10	1.9	9.9	0.0	0.2	0.1	80	10	26	10	11	30	5.9	10
11	1.1	6.8*	0.0	0.1	0.1	59	9.2	30	9.0	8.7	16	34	11
12	2.2	3.4	0.0	0.0	0.1	28	11	16	9.0	14	16	45	12
13	3.6	1.2	0.0	0.0	0.2	24	15	24	9.0	25	15	48	13
14	3.4	0.4	0.1	0.5	0.2	44	12	14	11	17	15	57	14
15	2.8	0.2	0.0	0.0	0.2	54	17	18	32	14	20	69	15
16	23	0.2	0.0	176	0.2	57	22	22	18	17	12	42	16
17	36	0.2	0.0	192	0.2	30	16	13	4.8	31	17	2.0	17
18	22	0.2	0.0	80	0.2	16	7.0	8.0	3.9	24	19	3.0	18
19	20	0.2	0.1	19	0.3	40	12	6.8	7.0	19	7.7	9.2	19
20	32	0.2	0.2	4.3*	0.3	48	21	5.0	31	16	12	22	20
21	51	0.2	0.1	61	0.3	24	23	26	18	10	10	38	21
22	48	0.2	0.1	126	0.2	11	12	6.1	19	17	19	12	22
23	38	0.2	0.1	47 *	0.2	51 *	13	5.4	20	19	17	6.8	23
24	32	0.2	0.1	72	0.2	29	14	5.0	13	24	47	2.1	24
25	27	0.2	0.1	88	0.3	8.5	13	24	7.3	17	30	2.8	25
26	23	0.2	0.1	41	0.8	10	13	26	24	29	19	6.8	26
27	13	0.1	0.1	18	0.7	19	31	14	24	30	7.9	8.7	27
28	7.9	0.1	0.0	8.7	34	5.0	28	24	31	17	12	7.7	28
29	43	0.1	0.0	2.3		4.6	17	13	7.2	17	17	5.2	29
30	32	0.1	0.0	0.4		10	19	8.0	15	27	19	3.0	30
31	23		0.1	0.1		30		13		19	40		31
MEAN	17.2		8.9	30.3	1.4	64.5	13.9	16.6	18.0	20.1	20.6	21.4	MEAN
MAX	51	36	0.2	192	34	280	31	31	38	40	47	69	MAX
MIN	1.1	0.1	0.0	0.0	0.0	4.6	1.6	5.0	3.9	7.5	7.7	2.0	MIN
AC FT.	1055	531	4	1861	78	3967	828	1020	1071	1238	1269	1272	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACFT NET	
19.6		740E	55.45	3	1	2000	0.0		12	10	1200	14190	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MOB & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CF3	GAGE HT	DATE				FROM	TO	
37 24 51	121 00 52	NE18 6S 9E	2650E	12.08a	2-1-63	DEC 57-DATE			1957	1968	LOCAL
									1968		USCGS

Station located 40 feet upstream from River Road Bridge, 3.7 miles southeast of Crows Landing. Prior to February 1, 1968, the station was located 500 feet downstream and was on local datum. During summer months most flows are irrigation drainage returned to San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs.

a Local datum then in use.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	807250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1020	1810	1980	2170	3360	1850	640	861	548	481	324	486	1
2	976	1780	2000	2060	3170	1920	815	861	550	457	351	483	2
3	999 *	1710	2000	1710	2850	2270	781	829	503	406 *	411	533	3
4	1010	1580	1970	1620	2850	3560	787	819	444	418	394	533	4
5	988	1780	1960	1610	3260	4580 *	822	794	423 *	462	386	528 *	5
6	984	1870	1980	1600	3190	5100	865 *	723 *	403	508	381	586	6
7	996	1980	1990	1600	3150	5330	851	668	418	449	367	577	7
8	950	2100	1980	1600	3180	5530	822	681	459	389	398	497	8
9	961	2160	1960	1480 *	3460 *	5400	822	662	452	358	416	494	9
10	976	2180	1940	1410	3810	4970	798	675	470	330	454	516	10
11	961	2080	1930	1480	3800	4350	791	727	492	328	428	530	11
12	954	2000 *	1900	1600	3660	4010	784	710	492	379	431	533	12
13	976	1990	1660	1510	3610	3140	822	717	489	394	431	530	13
14	976	2240	1530	1510	3410	2520	833	691	497	360	394	550	14
15	1010	2360	1500	1530	3160	2030	808	681	536	372	413	568	15
16	1270	2150	1480	2060	2980	1760	826	675	500	344	452	553	16
17	1710	1500	1450	2760	2940	1580	847	665	462	339	475	516	17
18	1900	1370	1440	3460	3040	1400	840	640	439	324	473	550	18
19	1910	1760	1420	4000	3330	1280	784	634	426	328	462	542	19
20	1850	1870	1300	4820	3450	1140	781	622	426	377	416	536	20
21	1830	1920	1230	5130 *	3390	1120	781	622	431	355	423	562	21
22	1810	1910	1210	5110	2940	1090	750	583	423	337	406	548	22
23	1980	1760	1220	4920 *	2400	1250	733	519	434	333	459	505	23
24	2100	1340	1350	4490	2210	1200	727	511	431	335	528	503	24
25	2150	1300	1610	4240	2130	1100	727	505	389	342	465	492	25
26	2150	1690	1780	4040	2420	969	777	492	386	372	446	503	26
27	2150	1840	1860	3970	2030	942	815	500	406	391	428	514	27
28	2150	1900	1900	3880	1820	865	805	511	434	360	446	489	28
29	1950	1930	1910	3700		851	812	514	452	333	441	475	29
30	1840	1940	1890	3500		887	854	497	444	324	478	486	30
31	1810		2060	3390		854		511		313	489		31
MEAN	1461	1860	1722	2837	3036	2414	803	648	455	374	428	524	MEAN
MAX	2150	2360	2060	5130	3810	5530	865	861	550	508	528	586	MAX
MIN.	950	1300	1210	1410	1820	851	727	492	386	313	324	475	MIN.
AC. FT.	89850	110700	105900	174500	168600	148500	47800	39870	27090	23000	26310	31180	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	GAUGE HT.	MO	DAY	TIME	DISCHARGE	GAUGE HT.	MO	DAY	TIME	TOTAL AC. FT.
1372	5560	48.85	3	8	1600	308	38.85	7	31	0300	993300

LOCATION					MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LDNGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM		
			CF5	GAUGE NT.	DATE			FROM	TO				
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	0.00	USED		
									1959	0.00	USGS		
									1959	3.51	USED		
Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs, and diversions.													

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1100 E	2050	2110	2170	3410	1910	961	1060	593	499	309	466	1
2	1060 E	2030	2130	2150	3270	2030	957	1040	593	477	343	469	2
3	1080 E	1980	2130	1840	3010	2150	925	1030	566	422 *	427	521	3
4	1090 E	1630	2110	1700	2860	3030	883	1010	471	458	414 *	549 *	4
5	1070 E	1970	2100	1670 *	3170	4150	921	990	437	504	411	552	5
6	1060 E	2090	2100	1650	3170 *	4820	997 *	925	422	555	427	625	6
7	1080 E	2160	2110	1650	3110	5160	1000	848 *	427	482	401	607	7
8	1030 E	2260	2110	1640	3100	5390	975	855	466 *	414	391	521	8
9	1040 E	2320	2110	1570	3270	5400	950	831	515	377	419	482	9
10	1060 E	2340	2080	1480	3640	5080	921	855	490	341	474	526	10
11	1040 E	2280 *	2060	1540	3770	3900	904	925	512	343	427	569	11
12	1030 E	2190	2050	1650	3610	3630 *	928	939	507	396	427	578	12
13	1060 E	2150	1880	1600	3540	3210	1000	932	512	432	445	599	13
14	1060 E	2320	1700	1600	3400	2750	1030	872	510	377	422	625	14
15	1090 E	2470	1640	1610	3180	2250	1010	850	546	362	429	607	15
16	1350 E	2400	1610	1960	3000	1960	986	824	480	325	493	599	16
17	1790 E	1840	1580	2600	2930	1790	1010	838	488	336	501	569	17
18	2040 E	1580	1560	3260	2960	1610	953	791	463	331	437	613	18
19	2050 E	1880	1560	3800	2500	1540	982	771	461	345	453	622	19
20	1930 E	2030	1480	4650	3300	1460	943	754	458	384	448	622	20
21	1910 E	2080	1380	5150 *	3300	1350	939	728	482	334	453	653	21
22	1890 E	2080	1360	5280	3050	1310	900	693	477	313	435	662	22
23	2060 E	2000	1350	5210	2550	1440	865	610	466	313	482	602	23
24	2180 E	1610	1430	4890	2320	1420	893	587	480	306	610	578	24
25	2280 E	1480	1640	4580	2180	1320	893	584	435	334	535	572	25
26	2280 E	1790	1820	4340	2380	1170	982	572	419	367	501	587	26
27	2280 E	1970	1880	4220	2180	1130	1080	566	466	401	466	613	27
28	2280 E	2040	1920	4120	1920	1060	1060	572	499	334	471	613	28
29	2240	2070	1940	3940	1030	1040	1040	566	521	315	485	587	29
30	2120	2090	1940	3710	1070	1090	1090	555	496	300	541	607	30
31	2070		2050	3510	997			563		298	521		31
MEAN	1571 E	2046	1836	2927	3006	2468	966	792	489	380	452	580	MEAN
MAX	2280 E	2470	2130	5280	3770	5400	1090	1060	593	555	610	662	MAX
MIN	1030 E	1480	1350	1480	1920	997	865	555	419	298	309	466	MIN
AC FT	96590E	121700	112900	180000	167000	151800	57480	48670	29070	23360	27760	34500	AC FT

E - ESTIMATED
 NB - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL
1451	5460	42.65	3	9	0100		299	32.25	7	24	2100		1051000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1:4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO		
37 29 52	121 04 52	SW15 5S 8E	54.0	6-13-38					1938	1959	0.00	USED
			50.47a	6-13-38					1959		0.00	USCGS
			5460b	42.65	3- 9-70	OCT 69-DATE	APR 38-SEP 66		1959		1.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-69.

a Reflects present datum.
 b Maximum discharge since station was rated in October 1969.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1440	1240	1630	579	3310	2550	34	23	221	518	21	11	1
2	1580	1220	1460	680	2580	2630	29	23	910	474	21	18	2
3	1590	1550	1150	584	2570	2560	29	22	1020	201	21	17	3
4	1560	1470	955	580	2570	2530	28	151	923	23	21	13	4
5	1540	1700	695	1350	2570	2510	27	563	542	21	22	9.9	5
6	1610	1560	617	1240	2570	2900	27	352	34	21	22	9.1	6
7	845	1410	620	1290	2580	3250	26	228	32	20	22	12	7
8	163	1240	666	1080	2570	3260	24	369	31	20	23	19	8
9	241	1230	660	1030	2560	3110	24	574	76	20	23	9.6	9
10	169	1440	644	584	2570	2960	32	574	511	20	21	7.9	10
11	148	1340	662	577	2510	2640	37	571	967	20	22	8.1	11
12	140	1400	628	828	2570	2250	31	576	1590	21	23	12	12
13	613	1670	617	938	2580	2250	42	578	2560	21	23	17	13
14	835	1390	612	1430	2580	2250	33	577	1190	21	23	7.3	14
15	1190	1210	638	2510	2570	2240	27	570	564	21	25	7.0	15
16	758	1180	692	3350	2550	1490	23	573	234	21	25	11	16
17	705	1590	681	6610	2630	958	23	557	31	21	25	9.9	17
18	658	1460	672	6740	2590	879	23	586	30	21	25	5.1	18
19	641	1240	621	6690	2590	892	24	568	74	21	25	4.9	19
20	999	1170	599	6650	2580	937	24	280	139	21	25	4.7	20
21	1230	1090	394	6730	2590	880	24	31	1170	22	26	4.7	21
22	1240	740	543	6950	2600	933	25	126	1920	22	27	4.6	22
23	1370	650	665	7000	2600	804	25	29	1650	24	28	4.6	23
24	1480	1300	607	6990	2600	672	23	26	1520	22	28	7.4	24
25	1570	1480	612	6970	2600	675	22	129	1860	22	28	14	25
26	1580	1450	629	6920	2590	459	23	31	1190	22	28	14	26
27	1490	1180	600	6890	2600	138	22	23	1060	21	28	13	27
28	1360	1170	592	6830	2370	66	22	22	1250	21	29	12	28
29	1250	1070	693	6200		32	24	22	1410	21	29	9.8	29
30	1230	1070	556	4060		129	24	22	703	22	14	8.3	30
31	1210		589	3320		133		48		22	9.6		31
MEAN	1046	1297	710	3663	2598	1612	26.0	285	847	57.7	23.6	10.2	MEAN
MAX.	1610	1700	1630	7000	3310	3260	37	588	2560	518	29	19	MAX.
MIN.	140	650	394	577	2370	32	22	22	30	20	9.6	4.6	MIN.
AC FT.	64330	77180	43630	226500	144300	99110	1549	17540	50400	3546	1453	607	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL
1009	7020	75.23	1	23	0045		0.2	67.13	8	30	1600	730100

LOCATION				MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M		OF RECORD				DISCHARGE	GAGE HEIGHT ONLY			PERIOD	ZERO ON GAGE	REF DATUM	
				CFS	GAGE HT.	DATE						FROM	TO		
37 39 59	120 27 40	NW20 3S 14E		52200	188.0	12-8-50		OCT 36-SEP 60				1937	1.76	USGS	
					186.29	1-26-69		OCT 61-DATE							

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1480	1510	1240	696	3400	2640	290	143	10	577	97	100	1
2	1600	1530	1420	696	2900	2830	185	125	592	715	100	92	2
3	1630	1560	1220	755	2730	2740	158	128	1070	608	100	92	3
4	1640	1770	1120	696	2710	2690	152	125	1010	234	100	92	4
5	1600	1750	866	857	2690	2740	146	460	954	155	105	94	5
6	1640	1920	762	1200	2680	2780	136	677	313	133	108	97	6
7	1480	1720	735	1160	2680	3340	133	413	146	119	105	94	7
8	760	1650	742	1140	2680	3360	128	403	110	108	100	85	8
9	602	1540	769	1090	2680	3330	119	696	122	97	102	85	9
10	596	1560	755	998	2680	3090	119	735	228	90	102	87	10
11	439	1630	748	742	2630	2990	122	729	888	97	105	87	11
12	378	1600	748	748	2640	2480	133	735	1150	108	102	87	12
13	465	1770	722	977	2680	2430	140	735	2500	110	102	90	13
14	1020	1730	715	1140	2690	2430	155	742	1730	102	100	94	14
15	1320	1580	709	2150	2690	2410	136	735	775	105	100	92	15
16	1250	1490	748	2740	2640	2150	130	722	665	100	100	92	16
17	1100	1530	769	5470	2740	1280	122	702	226	100	92	92	17
18	1170	1620	762	6680	2710	1350	110	729	149	100	90	92	18
19	1140	1240	762	6680	2680	1060	116	729	133	97	90	94	19
20	1180	1320	729	6660	2670	1320	102	689	165	100	100	97	20
21	1530	1260	696	6790	2670	1140	113	244	887	100	102	97	21
22	1550	1100	444	7070	2670	1210	110	149	1380	100	102	94	22
23	1570	902	762	7240	2670	1170	119	224	1960	100	100	92	23
24	1710	984	762	7240	2670	984	122	146	1340	100	100	94	24
25	1770	658	735	7230	2690	969	119	122	1750	102	102	92	25
26	1810	1420	735	7190	2720	924	122	206	1690	105	102	92	26
27	1730	1350	735	7150	2720	497	116	133	1040	110	108	102	27
28	1680	1200	702	7050	2570	386	122	108	1500	100	110	102	28
29	1560	1140	709	6880	230	230	119	100	993	100	102	102	29
30	1530	1120	722	4670	179	179	128	100	1510	92	100	105	30
31	1520		696	3430		254		100		97	108		31
MEAN	1305	1439	798	3717	2716	1851	134	412	903	160	101	93.6	MEAN
MAX	1810	1920	1420	7240	3400	3360	290	742	2500	715	110	105	MAX
MIN	378	658	444	696	2570	179	102	100	105	90	90	85	MIN
AC FT	80230	85630	49070	228600	150900	113800	7978	25360	53750	9840	6220	5568	AC FT

E - ESTIMATED
 NR - NO RECORD
 - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	TOTAL
1128	7260	76.16	1	82	816900
		96.2	12-8-50	69.70	
				9	
				0100	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B S M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	TIERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932	-1.13	USCGS	

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	804130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	83	24	26	27	163	94	77	117	62	121	72	82	1
2	84	23	26	24	157	776 *	78	94	87	218	68	71 *	2
3	80	23	26	24	154	482	79 *	90	81	172	70 *	69	3
4	86	23	26	24	132	180	82	88	79	80	70	76	4
5	82	24	26	23 *	85	732	81	99 *	81	83	67	70	5
6	84	46	24	21	79	488 *	83	84	79	76 *	66	69	6
7	85	73	23	21	76	190	79	80	76	70	64	69	7
8	89	50 *	23	20	72	128	80	80	79 *	74	62	69	8
9	84	36	21 *	21	69	102	85	90	81	73	70	69	9
10	95 *	30	20	24	66	98	81	119	120	72	71	72	10
11	90	26	20	21	63	88	81	150	210	70	72	68	11
12	94	24	20	30	61	85	90	169	200	76	72	64	12
13	90	26	21	93	60	78	97	175	163	76	66	66	13
14	92	24	21	139	60	72	101	175	151	71	67	66	14
15	156 E	23	20	1440 *	121	70	120	168	115	70	69	68	15
16	154 E	22	20	862 *	111	66	125	148	94	68	65	73	16
17	86 E	22	20	1730	87	64	102	129	90	64	62	68	17
18	62 E	21	20	401	188	61	99	133	90	69	61	78	18
19	48 E	22	20	219	150	73	103	91	83	64	66	82	19
20	39 E	24	22	147	106	106	107	87	79	64	67	83	20
21	33 E	24	23	227	90	89	105	83	82	63	72	87	21
22	30 E	24	26	1120 *	81	70	108	88	76	71	72	83	22
23	28 *	24	29	337	76	56	107	90	72	68	69	86	23
24	26	25	27	177	72	57	112	86	73	68	71	81	24
25	25	24	27	139	70	61	116	86	76	68	72	75	25
26	24	25	41	131	67	66	104	89	79	68	72	82	26
27	24	26	116	138	64	72	108	89	80	64	69	86	27
28	23	26	64	260	72	76	123	79	86	70	68	90	28
29	23	26	43	245	82	82	112	82	86	68	73	94	29
30	23	27	34	192	81	81	122	78	82	68	71	88	30
31	24	30	30	172	80	80		79		71	87		31
MEAN	66.0	27.9	29.2	273	94.7	155	98.2	106	97.1	79.9	69.1	76.1	MEAN
MAX.	156	73	116	1730	188	776	125	175	210	218	87	94	MAX.
MIN.	23	21	20	60	56	56	77	78	72	63	61	64	MIN.
AC FT.	4058	1660	1795	16760	5260	9546	5845	6536	5776	4915	4251	4530	AC FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
98.0	2390	20	70930
	GAGE HT. 81.21	GAGE HT. 67.50	
	MO 1	MO 12	
	DAY 17	DAY 10	
	TIME 0500	TIME 1800	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1.4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT	DATE						
37 39 26	120 55 19	SE 24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941	0.00	USCGS	

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (CONT.)													
DAILY MEAN DISCHARGE				WATER YEAR		STATION NO	STATION NAME						
(IN CUBIC FEET PER SECOND)				1970		B04105	TUOLUMNE RIVER AT TUOLUMNE CITY						
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1820	2080	2300	849	3750	2700	455	382	431	1280	310	340	1
2	1790	2080	1630	842	3560	2940	452	366	428	884	321	323	2
3	1910	2090	1720	874	3140	3530	402	359	729	917	318	310	3
4	1950	2270	1490	894	2990	2910	389	355	1070	741	300	308	4
5	2050	2380	1340	866	2870	2910	379	353	1080	536	298	314	5
6	2040	2550	1120	1120	2810	3330	370	505	1030	457	300	321	6
7	2060	2540	1010	1350	2820	3120	362	614	633	416	284	318	7
8	1780	2390	979	1370	2800	3340	368	528	505	384	282	316	8
9	1220	2220	979	1290	2790	3350	362	536	464	368	284	306	9
10	1070	2120	960	1250	2740	3240	357	738	450	368	290	308	10
11	997	2200	963	1080	2750	3120	348	824	583	359	288	316	11
12	869	2220	969	911	2720	2880	364	846	1040	377	296	304	12
13	829	2240	956	971	2720	2520	384	875	1450	373	290	302	13
14	914	2430	947	1210	2750	2450	389	878	2340	348	292	314	14
15	1350	2300	898	1830	2760	2420	395	872	1760	327	302	308	15
16	1740	2100	889	3270	2830	2470	400	872	1050	316	304	308	16
17	1510	2030	937	4200	2780	2040	386	884	843	318	300	306	17
18	1400	2130	963	6640	2870	1560	375	862	562	325	290	312	18
19	1570	1850	954	7260	2880	1510	386	843	616	331	290	321	19
20	1560	1540	954	7320	2800	1480	384	824	435	331	298	331	20
21	1690	1600	916	7400	2740	1570	355	762	445	302	298	333	21
22	1970	1500	877	8160	2760	1460	355	538	878	296	306	321	22
23	2030	1280	573	8280	2730	1460	353	479	1450	316	314	318	23
24	2120	1150	965	8160	2730	1370	364	492	1690	310	312	318	24
25	2210	1450	963	8100	2740	1010	377	450	1490	306	316	321	25
26	2300	1750	930	8090	2760	977	379	440	1780	316	314	316	26
27	2160	1740	947	8060	2730	894	375	462	1540	308	314	318	27
28	2280	1580	870	8190	2740	639	370	442	1260	306	312	325	28
29	2310	1470	907	8240	2700	578	364	423	1480	306	314	323	29
30	2110	1390	916	7500	2700	510	364	419	1290	306	321	329	30
31	2090		884	4870		455		416		296	329		31
MEAN	1732	1956	1056	4208	2859	2088	379	601	1027	423	303	317	MEAN
MAX	2310	2550	2300	8280	3750	3530	455	884	2340	1280	329	340	MAX
MIN	829	1150	573	842	2720	455	348	353	428	296	282	302	MIN
AC. FT.	106500	116400	64910	258700	158800	128400	22540	36970	61090	26030	18620	18860	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL
1406	8790	37.95	1	22	2200		274	23.51	8	8	1900		1018000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E	46.65	12- 9-50	1930-DATE			1960	1959	0.00	USED
			37900b	42.86	1-27-69			1960		0.00	USCOS
								1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times. from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3360	4030	3400	2780	8980	5030	1160	1480	1250	2140 E	678	910	1
2	3140 *	4000	3560	2830	8110	5150	796	1420	1360	1620 E	741	824	2
3	3160	3980	3760	2800	7360	5310	1120	1410	1420 E	1430 #	767	824 *	3
4	3250	3900	3610	2800	6480	5470	1210	1350	1690 E	1280	758	837	4
5	3400	4030	3460	2670	6240	6650	1230	1300	1670 #	1110	711 *	891	5
6	3370	4320	3230	2830 *	6440 *	8200	1290	1410 *	1590 E	1060	771	947	6
7	3400	4430	3100	3170	6530	8720	1360	1540	1160 E	1060	737	1010	7
8	3220	4410	3100	3150	6530	9240	1360	1400	1070 E	919	703	937	8
9	2640	4360	3100	3140	6600	9410	1310	1400	1080 E	828	732	837	9
10	2290	4290	3090	2990	6920	9330 *	1270	1620	1030 E	824	745	833	10
11	2160	4280	3040	2800	7280	6800	1220	1780	1200 E	797	715	873	11
12	1970	4290	3030	2650	7260	8040	1280	1860	1700 E	806	699	942	12
13	1940	4240 *	3000	2650	7140	6770	1380	1870	2160 E	924	737	970	13
14	1930	4350	2810	2930	7030	6710	1480	1880	3130 E	855	732	1010	14
15	2480	4540	2720	3370	6880	5440	1450	1850	2540 E	750	724	989	15
16	3100	4430	2600	5000	6690	4850	1430	1820	1850	741	797	947	16
17	3280	4110	2590	5930	6500	4220	1440	1890 E	1500	690	811	937	17
18	3260	3650	2590	7480	6460	3030	1390	1820 E	1220	703	767	947	18
19	3540	3600	2580	8840 *	6620	2770	1390	1770 E	1040	732	673	1040	19
20	3540	3560	2580	10350	6730	2470	1370	1730 E	961	745	745	1110	20
21	3550	3560	2450	11280	6700	2520	1310	1640 E	989	707	754	1130	21
22	3840	3500	2360	11760 *	6640	2210	1270	1350 E	1350 E	620	789	1120	22
23	3970	3370	2150	10560	6180	2360	1210	1260	1850 E	640	802	1050	23
24	4160	2990	2360	11990	5690	2550	1200	1180	2330 E	645	887	1030	24
25	4380	2770	2540	12400	5360	2510	1330	1300	2120 E	657	873	1000	25
26	4540	3200	2570	12350	5410	2350	1400	1360	2210 E	699	855	1020	26
27	4610	3490	2590	12170	5610	2190	1520	1300	2260 E	754	860	1080	27
28	4580	3550	2650	12080	5240	1830	1520	1250	1920 E	745	833	1090	28
29	4520	3460	2620	12300	1570	1420	1420	1210	2420 E	682	655	1060	29
30	4260	3430	2590	12030	1520	1440	1290	2510 E	653	901	1050	30	30
31	4090		2680	10630	1370		1320		645	933			31
MEAN	3385	3871	2855	6797	6629	4793	1319	1518	1686	886	776	975	MEAN
MAX.	4610	4540	3760	12400	8980	9410	1520	1890	3130	2140	933	1130	MAX.
MIN.	1930	2770	2150	2650	5240	1370	796	1180	961	620	673	824	MIN.
AC. FT.	208100	230300	175600	417900	368200	294700	78500	93340	100300	54470	47710	58010	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
2938	12400	600	2127000
	GAGE HT. MO DAY TIME	GAGE HT. MO DAY TIME	
	30.17 1 25 0000	14.27 7 22 2100	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R MOB & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 36 28	121 13 37	SW29 3S 7E	45,550	36.87	2-28-69	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943 1959	0.00 0.00 3.41	USED USCGS USED	
Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Annual maximum discharge shown does not reflect the maximum gage height. Due to a backwater condition caused by the Stanislaus River, the annual maximum gage height was 31.35 feet and occurred at 1800 hours on 1-23-70.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	703	619	644	1970	2990	2520	1000	35	2180	147	31	30	1
2	694	595	712 *	1100 *	2620	4530	167 *	38	2480	48 *	33	26 *	2
3	686	151	694	829	3190	4150 *	108	41	2930	37	33 *	27	3
4	716	132	686	926	3580	3420	73	34 *	2920	36	35	31	4
5	712	571	681	926	3240 *	3580	66	34	2020	37	32	31	5
6	673 *	168	673	693	2990	3110	69	52	1470	33	32	32	6
7	665	139	660	124	2710	2720	58	659	868	35	32	30	7
8	660	124 *	673	936	2540	2720	62	659	629 *	35	32	27	8
9	639	124	619	961	2390	2560	53	649	1920	39	32	27	9
10	587	128	485	946	2350	2300	52	644	3600	31	30	26	10
11	615	208	673	946	2320	2290	51	690	2020	29	30	26	11
12	665	203	690	946	2270	2110	51	899	785	31	30	25	12
13	652	205	681	951	2370	1870	53	765	177	30	31	27	13
14	619	205	681	1650	1800	1880	46	706	111	29	36	28	14
15	521	215	681	2110	1800	1880	45	1150	58	30	37	29	15
16	525	217	656	4330	1820	1880	45	2480	45	28	33	26	16
17	518	210	690	12200 *	1860	1880	49	2460	41	30	31	27	17
18	521	210	673	9320 *	2040	1880	51	2450 *	36	33	33	31	18
19	518	203	690	7740 *	2330	1880	45	2450	38	33	34	30	19
20	514	203	690	6980	2340	1890	47	2200	33	28	31	28	20
21	521	335	725	8430	2340	1850	47	1530	320	28	33	26	21
22	518	686	720	16700 *	2350	1690	52	194	748	27	33	26	22
23	525	694	690	10200	2350	1440	44	669	858	28	33	26	23
24	533	690	1040	8320	2340	797	44	2030	465	33	34	26	24
25	563	699	2140	8300	2240	501	43	1960	349	30	36	26	25
26	548	716	2080	8290	2010	189	47	1470	310	30	34	30	26
27	559	716	2050	8020	2000	213	51	1500	96	30	36	32	27
28	591	716	2030	6970	2000	426	50	1630	1950	34	35	26	28
29	587	703	2030	5630		367	34	2090	1130	33	35	32	29
30	627	712	2010	4482		373	35	1720	154	31	34	26	30
31	615		1990	3020		685		1620		30	33		31
MEAN	600	383	995	4676	2399	1922	88.6	1145	1025	35.9	33.0	28.1	MEAN
MAX.	716	716	2140	16700	3580	4530	1000	2480	3600	147	37	32	MAX.
MIN.	514	124	485	124	1800	189	34	34	33	27	30	25	MIN.
AC.FT.	36870	22800	61160	287500	133200	118200	5270	70430	60970	2208	2031	1670	AC.FT.

E - ESTIMATE
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- EAND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
1108	18200	19.20	1	22	1300	24	1.24	9	11	1600	802300

LOCATION				MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R MOB & M		OF RECORD				DISCHARGE	GAGE HEIGHT ONLY			PERIOD		ZERO ON GAGE	REF DATUM
				CFS	GAGE HT	DATE						FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E		62000	31.8	12-23-55		JUN 28-DEC 39 APR 40-DATE						117.21	USCGS
Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.															

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)													
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
		WATER YEAR		STATION NO.		STATION NAME							
		1970		B03115		STANISLAUS RIVER AT KOETITZ RANCH							
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1100	684	722	1730 E	3700	1960	843	302	1620	663	225	271	1
2	1010	686	684	1720 E	3220	2480	1040	300	1990	542	232	275	2
3	9574	711	1180	E	2860	3780	669 *	303	2250	439 *	251 *	271	3
4	976	474	711	905 E	3220	3890	493	294	2660	381	204	290	4
5	1010	376	711	964 E	3520	3470	408	239 *	2670 *	345	214	309	5
6	1040	365	711	961 #	3250	3510	395	267	2130	322	230	329	6
7	9694	366	707	829	2960	3110	402	272	1650	313	240	287	7
8	989	349	703	506	2740	2740	368	475	1240	280	251	230	8
9	996	324	709	770	2560 *	2680	331	654	1100	280	265	216	9
10	961	306	692 *	917	2430	2620 *	340	707	1900	267	238	241	10
11	949	302	600	927	2360	2310	357	759	3030	257	197	268	11
12	939	324	667	922	2310	2270	382	759	2190	243	192	292	12
13	949	339 *	709	924	2270	2100	381	832	1270	260	188	299	13
14	912	339	707	956	2270	1930	386	788	905	238	208	313	14
15	941	339	707	1540	1880	1890	373	748	784	241	200	313	15
16	867	339	707	2130	1820	1870	382	1040	636	243	231	336	16
17	737	337	694	3290	1820	1850	374	1920	598	240	255	332	17
18	701	334	703	6430	1840	1900	354	2210	559	261	249	351	18
19	644	328	711	a	1990	1900	336	2240	488	255	232	306	19
20	616	322	722	6560	2190	1920	355	2240	435	234	211	336	20
21	610	321	726	6380	2220	1930	326	2080	435	221	229	346	21
22	604	351	742 E	a	2220	1860	304	1520	461	230	239	343	22
23	600	574	737 E	a	2230	1730	306	773	709	217	286	322	23
24	600	654	720 E	a	2230	1480	331	832	809	235	292	310	24
25	602	677	910 E	a	2220	1080	322	1660	669	220	263	287	25
26	626	690	1760 E	a	2130	874	354	1740	578	226	251	326	26
27	622	709	1750 E	a	1970	716	310	1480	592	230	267	377	27
28	626	713	1740 E	6550	1940	646	271	1400	490	213	287	357	28
29	646	720	1740 E	6230	713	306	1530	1310	222	263	348	29	29
30	656	716	1740 E	5760	658	315	1870	1170	198	269	267	30	30
31	679		1730 E	5060				1740		214	303		31
MEAN	812	468	912		2442	2016	404	1096	1244	282	241	305	MEAN
MAX.	1100	720	1760		3700	3890	1040	2240	3030	663	303	377	MAX.
MIN.	600	302	600		1820	644	271	239	435	198	188	216	MIN.
AC FT	49940	27820	56100		135600	124000	24030	67390	74040	17320	14800	18140	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *
a - SEE (a) BELOW

MEAN DISCHARGE	DISCHARGE	MAXIMUM				DISCHARGE	MINIMUM				TOTAL ACRE FEET	
		GAGE HT	MO	DAY	TIME		GAGE HT	MO	DAY	TIME		
		47.56	1	23	0500		170	27.42	8	11	1300	

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R N O B & M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
				CF5	GAGE HT	DATE				FROM	TO	
37 41 57	121 10 08	SW 2	3S 7E		50.5	12-24-55	OCT 62-DAT2	MAR 50-SEP 62		1950 1963	1962	-0.63 0.37
Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions.												
a Water bypasses station by overflowing flood plain on right bank and discharge is not computed. Overflowing occurs at approximately 45 feet gage height.												

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4670	4920	4360	4840	13300	7130	2800 E	1660	2500 *	2920 *	968	1220	1
2	4420	4890	4430	4910	11400	7360	2250 E	1590	2780	2320	1030	1090 *	2
3	4360	4880	4650	4660	10300 *	9040 *	1960	1620	3150	2130	1110	1070	3
4	4460	4730	4560	4100	9680	9800	1860	1630 *	3780	1950	1050	1090	4
5	4560	4670	4390	3950 *	9870	10200	1720	1490	3880	1780	950	1210	5
6	4620	4830	4200	3950	9870	11300	1650 *	1530	3700	1650	1030 *	1320	6
7	4590	5030	4080	4210	9570	11700	1670	1680	3070	1600	1010	1380	7
8	4490	5040	4020	3990	9300	11700	1680	1630	2420	1430	980	1220	8
9	4110	4970	4010	4030	9150	11900	1590	1810	2080	1270	1040	1080	9
10	3770	4880	4010	4100	9180	11800	1550	2110	2390	1250	1070	1030	10
11	3620	4860	3930	4040	9360	11200	1500	2350	3510	1240	962	1080	11
12	3470	4890	3910	3880	9360	10400	1540	2420	3770	1270	908	1260	12
13	3400	4850	3930	3880	9230	9120	1680	2490	3200	1380	920	1340	13
14	3340	4910	3770	4080	9260	8200	1760	2510	3470	1330	950	1380	14
15	3730	5150	3640	4630	8840	7550	1690	2470	3580	1150	926	1370	15
16	4230	5100	3590 *	6720	8580	7000	1680	2520	2630	1120	986	1260	16
17	4360	4850	3590	8220	8390	6510	1310	1980	1090	1080	1080	1260	17
18	4270	4400	3560	12200	8340	5600	1630	3540	1620	1110	1060	1300	18
19	4420	4300 *	3560	17400	8530	5310	1600	3600	1380	1120	962	1420	19
20	4440	4280	3580	18200 *	8890	5050	1590	3640	1220	1130	968	1510	20
21	4420	4250	3480	18400	9020	5070	1450	3490	1230	1020	956	1590	21
22	4640	4210	3430	18700	9000	4860	1380	3060	1500	902	1010	1510	22
23	4760	4230	3310	24000	8750	4770 E	1330	2320	2140	920	1040	1440	23
24	4890	4060	3380	24000	8370	4650 E	1370 *	2010	2990	950	1210	1410	24
25	5060	3820	3550	21200	8100	4450 E	1470	2500	2700	974	1230	1360	25
26	5220	4110	4100	20200	8010	4050 E	1590	2690	2810	1080	1140	1410	26
27	5320	4410	4510	19700	7970	3700 E	1690	2570	2990	1150	1140	1520	27
28	5310	4500	4660	19400	7730	3450 E	1650	2460	2440	1130	1130	1550	28
29	5290	4430	4690	18900	3300 E	3300 E	1590	2430	3040	1000	1170	1480	29
30	5100	4380	4710	17900	3270 E	3270 E	1610	2610	3160	944	1140	1420	30
31	4980		4770	16200		3130 E		2650		926	1250		31
MEAN	4462	4628	4012	11120	9191	7180	1673	2393	2704	1330	1044	1319	MEAN
MAX.	5320	5150	4770	24000	13300	11900	2800	3640	3880	2920	1250	1590	MAX.
MIN.	3340	3820	3310	3880	7730	3130	1330	1490	1220	902	908	1030	MIN.
AC FT	274400	275400	246700	683500	510500	441500	99530	147200	161000	81790	64220	78510	AC FT

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- EANG *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACFT
4232	25900	28.52	1	23	1930						3064000

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75 12-9-50	JUL 22-DEC 25		1931	1959	8.4	USED
			52600	34.55 1-27-69	JAN 24-FEB 25		1931	1959	5.06	USCGS
					JUN 25-OCT 28		1959		0.00	USCGS
					MAY 29-DATE					

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with OWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME

TOTAL ACRE FEET

LOCATION			MAXIMUM DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CF5	DATE			FROM	TO	
36 10	119 50	NW20 20S 20E	4102a	6-12-69	1937-DATE				
Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association. a Maximum discharge since 1950.									

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C02602	CROSS CREEK BELOW LAKE LAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX													MAX
MIN.													MIN
AC. FT													AC. FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 12 42	119 34 05	NE 10 20S 22E				1921-DATE					
Station located downstream from Cross Creek Weir, 4 miles east of Guernsey, Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)				WATER YEAR		STATION NO.		STATION NAME					
				1970		C03913		PRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH					
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10				0	6	6	2	0	5	6	4	1
2	10				0	6	6	0	0	4	4	4	2
3	10				0	5	6	0	0	6	4	4	3
4	10				0	5	6	0	3	5	6	4	4
5	10				3	6	6	0	1	5	7	4	5
6	10				4	6	6	0	0	6	6	4	6
7	10				4	6	6	0	0	7	6	3	7
8	10				4	6	4	0	0	7	7	4	8
9	10				4	6	3	4	0	7	7	4	9
10	10				4	6	3	2	0	6	7	4	10
11	10				4	6	3	0	0	6	7	4	11
12	10	N		N	4	6	3	0	0	6	7	4	12
13	10	O		O	4	6	3	0	4	6	8	4	13
14	10				4	6	2	0	5	5	8	3	14
15	10				4	6	1	0	5	6	8	4	15
16	11	F		F	4	6	0	0	5	6	8	4	16
17	4	L		L	4	6	0	0	6	5	6	3	17
18	0	O		O	4	6	0	0	5	4	5	4	18
19	0	W		W	4	6	0	0	6	4	5	4	19
20	0				3	6	0	0	5	6	5	4	20
21	0				4	6	0	0	4	9	5	4	21
22	0				4	6	0	0	4	10	5	3	22
23	0				4	6	0	3	4	10	5	3	23
24	0				4	6	0	6	4	9	5	4	24
25	0				4	6	0	6	4	9	4	4	25
26	0				5	7	0	2	4	8	4	4	26
27	0				6	8	0	0	4	9	4	4	27
28	0				6	8	0	0	4	9	4	4	28
29	0					6	3	0	4	10	4	4	29
30	0					5	4	0	5	10	4	4	30
31	0					6		0		10	4	4	31
MEAN	5.3				3.5	6.1	2.4	0.8	2.9	6.9	5.6	3.8	MEAN
MAX.	11				6	8	6	6	6	10	8	4	MAX.
MIN.	0				0	5	0	0	0	4	4	3	MIN.
AC. FT.	327				196	373	141	50	171	426	347	228	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN
DISCHARGE
3.1

MAXIMUM			
DISCHARGE	GAGE HT	MO	DAY TIME
11	0.40	10	16

MINIMUM			
DISCHARGE	GAGE HT	MO	DAY TIME
0		10	

TOTAL
ACRE FEET
2259

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 05 00	119 04 50	SW20 21S 27E				MAY 50-DATE					
These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.											

(IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	40	144	43	22	136	100	0						1
2	132	152	36	21	119	115	0						2
3	217	152 *	35	23	132	87	0						3
4	174	140	33	23	128	80	0						4
5	144	132	33	22	107	80	0						5
6	144	128	33	30	115	87 *	5.1						6
7	174	107	36	32	103	107	0						7
8	209	93	40 *	25	115	111	0						8
9	226	93	47	28	115	107	0						9
10	231	100	56	33	100	93	0						10
11	217	100	56	32	111	97	0						11
12	204	107	52	28 *	157	103	0	N	N	N	N	N	12
13	174	111	52	27	157	107	0	O	O	O	O	O	13
14	169	115	40	27	152	97	0						14
15	187	115	28	37	136	93	0						15
16	226	107	22	63	119	83 *	0	F	F	F	F	F	16
17	213	100 *	19	119	107	58	0	L	L	L	L	L	17
18	178	100	27	111	107	47	0	O	O	O	O	O	18
19	169	97	33	115	107	60	0	W	W	W	W	W	19
20	152 *	78	32	83	115	103	0						20
21	161	70	27	60	107	111	0						21
22	169	58	22 *	52	103	115	0						22
23	213	40	17	70	83	115	0						23
24	226	43	16	87	54 *	54	0						24
25	204	45 *	16	93	54	2.3	0						25
26	191	45	21	83	70	0	0						26
27	152	47	33	78	73	0	0						27
28	111	47	35	78 *	83	0	0						28
29	103	49	33 *	87	0	0	0						29
30	111	49	25	80	0	0	0						30
31	128	23	93	93	0	0	0						31
MEAN	172.5	92.1	32.9	56.8	109.5	71.4	0.2						MEAN
MAX	231.0	152.0	56.0	119.0	157.0	115.0	5.1						MAX
MIN	40.0	40.0	16.0	21.0	54.0	0	0						MIN
AC FT.	10610	5482	2025	3495	6079	4388	10						AC FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRES FEET
44.3	240	2.04	10	10	0900	0		3	25		32090

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 40	119 06 22	NW 30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957	1959	0.00	LOCAL
								1959		-3.48	LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15.8	15.8	0	0.4	0	9.6	0	12.5	18.6	14.8	8.4	14.2	1
2	16.2	15.8	0	0.4	0	9.3	0	10.7	28.9	13.5	8.7	12.5	2
3	16.2	16.2	0	4.2	0	9.3	0	10.0	18.9	14.6	9.0	10.7	3
4	16.2	16.5	0	9.0	0	9.3	0	9.3	16.8	15.5	4.7	13.5	4
5	16.2	16.5	0.4	9.3	0	9.3	0	10.4	10.7	16.2	7.8	13.5	5
6	15.8	14.2	0.8	9.0	0	8.7	0	10.7	8.7	17.5	8.4*	13.5	6
7	15.8	1.5*	0.8	8.4	0	8.7	0	11.6	8.4	17.2	8.7	14.8*	7
8	16.2	0	4.0*	7.8	0	8.7	0	11.6	8.7	18.2	8.4	16.2	8
9	16.2	0	8.4	7.8	0	9.0*	9.3	11.0	8.4	18.6	9.0	15.5	9
10	16.5	0	2.4	7.8	0	9.0	13.9	10.7	10.7	18.6	10.4	14.5	10
11	17.2	0	0.3	7.8	0	9.0	13.9	9.6*	13.9	18.2	7.2	14.5	11
12	17.5	0	0.3	7.6	0	9.3	14.8	9.3	15.2	17.8	7.2	14.5	12
13	17.8	0	0.3	9.3	0	9.6	13.5	9.3	15.2	17.8*	11.3	14.5	13
14	17.8	0	0.3	7.0	0	9.6	10.7	11.0	15.5	17.2	11.9	14.5*	14
15	17.8	0	3.6	0	0	9.6	10.4	13.2	15.2	15.5	11.3	14.2	15
16	18.2	0	8.7	0	0	9.3*	12.9	13.2	9.3	14.5	11.3	14.2	16
17	18.2	0	8.7	0	0	9.3	13.2	15.2	7.8	12.2	12.5	14.2	17
18	19.3	0	8.7	0	0	9.3	13.9	17.8	7.5	11.3	14.8*	14.2	18
19	19.3	0	9.0	0	0	4.0	16.2	18.6	7.5	11.3	15.8	14.2	19
20	20.3*	0	9.3	0	0	0	16.2*	18.6	7.5	11.3	15.2	14.2	20
21	20.6	0	8.4	0	0	0	16.5	18.6	7.2	11.3	14.5	13.9	21
22	17.5	0	8.1*	0	0	0	16.5	16.9	7.2*	11.3	14.2	13.9	22
23	15.5	0	8.4	0	0	0	16.2	18.9	6.8	11.3	14.2	14.8	23
24	15.2	0	9.0	0	0	0	16.2	18.6	6.8	11.3	13.9	14.8	24
25	14.8	0	9.0	0	0	0	16.2	16.8	6.8	11.9	14.2	15.2	25
26	15.2	0	9.0	0	7.0*	0	16.2	16.2	6.8	11.3	14.2	15.5	26
27	14.8*	0	9.0	0	9.6	0	14.5	16.5	6.8	11.0*	13.9	15.2	27
28	14.5	0	9.0	0	9.6	0	14.5	15.8	7.8	12.2*	13.5	14.8	28
29	14.5	0	9.6	0	0	0	15.5	15.5	7.8	12.2	13.2	15.7	29
30	14.5	0	2.2	0	0	0	14.2	15.5	12.5	11.3	13.9	1.2	30
31	15.2	0	0.4	0	0	0	0	16.2	0	9.3	13.9	0	31
MEAN	16.7	3.2	4.8	3.1	0.9	5.5	10.4	13.9	10.7	14.1	11.5	23.7	MEAN
MAX	20.6	16.5	9.6	9.3	9.6	9.6	16.5	18.9	18.9	18.6	15.8	16.2	MAX
MIN	14.5	0	0	0	0	0	0	6.3	6.3	9.3	4.7	1.2	MIN
AC FT	1025	191	294	190	52	337	617	856	635	866	705	813	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
† — E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET	
9.1												6582	

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE			OCT 62	0.00 -2.00	LOCAL LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13.4	58.6	6.4	115.0	58.6	40.3	0			0	0	0	1
2	13.8	57.0	6.0	105.2	57.0*	63.0	14.3			0	0	0	2
3	14.1	56.0*	6.0	93.4	56.0	74.6	16.8			0	8.6	0	3
4	14.1	56.0	6.0	88.0	50.6	75.4	16.4			0	22.4	0	4
5	14.1	56.0	5.6	31.6	42.8	74.6	10.2			0	28.0	1.1	5
6	13.8	56.0	5.2	6.4	40.3	74.6	7.8*			0	28.0*	11.8	6
7	12.4	56.0	5.4	3.2	40.3	74.6	9.0			0	25.8	21.0	7
8	12.4	54.0	6.9	3.3	39.8	74.6	7.8			0	25.8	24.0	8
9	12.1	53.0	8.6	4.0	38.3	75.4*	10.6			0	25.8	25.1	9
10	12.4	53.0	8.6	6.0	38.3	77.2	3.1			0	9.0	25.8	10
11	11.4	53.0	8.2	5.8	38.3	78.0	0			0	0	25.8	11
12	11.0	53.0	8.0	5.6	38.3	79.0	0.6			0	0	27.0	12
13	11.0	52.4	7.4	5.8	38.3	79.0	2.8		O	0	0	27.5	13
14	11.0	52.4	6.4	6.4	39.0	80.0	0			0	2.2	27.5	14
15	11.0	51.4	5.8*	5.0	38.3	80.8	0			15.3	16.8	27.0	15
16	11.0	51.4	5.8	45.6	39.0	82.6*	0	F	F	32.2*	17.4	25.8	16
17	29.4	50.6*	6.2	82.6	39.0	82.6	0	L	L	37.6	21.9	25.8	17
18	58.6	51.4	6.4	83.4	39.0	82.6	0	O	O	40.3	22.4*	26.2	18
19	70.0	51.4	6.6	81.6	39.0	23.4	3.9	W	W	39.0	7.0	25.8	19
20	62.0*	51.4	6.6	78.0	39.0	3.3	5.4*			39.8	0	26.2	20
21	57.9	24.8	4.6	68.0	39.8	2.4	0			36.2	0	26.2*	21
22	58.6	10.0	8.0	57.0	40.3	1.8	0			32.8	0	26.2	22
23	60.4	9.4	76.4	57.0	40.3	1.4	0			29.4	0	14.1	23
24	58.6	9.4*	101.4	57.0	41.2*	1.0	0			27.0	0	0.2	24
25	58.6	7.8	104.0	57.9	40.3	0	0			27.5	0	0	25
26	60.4	6.2	106.5*	57.0	40.3	0	0			27.5	0	0	26
27	60.4	6.2	109.0	57.9	40.3	0	0			27.5	0	0	27
28	58.6	6.4	109.0	57.9	40.3	0	0			8.4	0	0	28
29	57.9	6.9	110.0	57.0	0	0	0			0	0	0	29
30	60.4	6.9	110.0	58.6	0	0	0			0	0	0	30
31	60.4		118.0	58.6	0	0	0			0	0	0	31
MEAN	34.6	39.9	35.1	48.4	41.9	44.6	3.6			13.6	8.4	14.7	MEAN
MAX.	70.0	58.6	118.0	115.0	58.6	82.6	16.8			40.3	28.0	27.5	MAX.
MIN.	11.0	6.2	4.6	3.2	38.3	0	0			0	0	0	MIN.
AC. FT.	2125	2317	2160	2975	2325	2742	216			834	518	873	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
23.6											17083

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CF5	GAGE HT	DATE						
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957	0.00	LOCAL	
Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.8	4.3	4.7	3.1		0	0	3.7	3.3*	4.0		0	1
2	4.9	4.2	3.1	3.0			2.1	3.0	3.1	3.4	0	0	2
3	5.4	4.2	2.4	2.6		0.1	7.9	3.2	2.3	3.1	0	0	3
4	5.2	4.2	2.8	2.5		0.3	9.8	3.5	0	3.6	1.4	0	4
5	5.1	4.2	2.6	2.9		0.4	6.6	3.0	0	3.2	9.9	0	5
6	5.1*	4.4	2.3	3.5		0.5	4.2	3.0	0	2.4	12.4*	0	6
7	4.7	4.4	2.3	3.1		0.6	5.1	3.4	0	11.9	0	0	7
8	4.6	4.3	2.9	2.8		0.7	3.8	3.6	2.1	1.2	12.3	4.1	8
9	4.4	4.3	3.8	3.3		0	5.2	3.9	3.5	2.1	12.7	8.0	9
10	4.4	4.3	3.7	4.5		0	3.8	3.6	4.3	2.5	7.6	8.8	10
11	4.2	4.3	3.5	4.2		0	0.3	4.5	5.3	2.2	1.1	6.6	11
12	4.1	4.3	3.5	3.9*	N	0	0	3.8	5.6	2.0	0	9.6	12
13	4.1	4.2	3.8	3.8	O	0	0	4.5	5.3	2.4	0	11.9	13
14	4.2	4.1	3.8	4.6		0	0	3.6	4.9	2.1	0	6.7*	14
15	4.2	4.0	3.8	4.1		0	0	3.1	4.8	2.0	0.4	4.9	15
16	4.6	3.9	3.7	3.4	F	0	0	3.1	4.5	0	3.9	3.8	16
17	5.7	3.9*	3.1	1.2	L	0	0	2.8	4.9	6.0*	6.9	5.9	17
18	5.2	3.9	3.0	0.7	O	0	0	1.9	4.9	12.0	8.3*	10.3	18
19	5.4	3.9	3.6	0	W	0	0	0	4.8	13.9	6.0	13.2	19
20	5.1	3.9	3.1	0		0	0	0	4.6	14.4	1.0	13.3	20
21	4.3	3.1	2.9	0		0	0	0	4.6	14.5*	0	13.0	21
22	4.4	0.8	3.1	0		0	0	0	4.6	14.9	0	12.9	22
23	4.3	2.7	5.6	0		0	0	0	4.3*	13.8	0	9.1	23
24	4.3	5.2	5.9	0		0	0	0	4.0	12.7	0	0.5	24
25	4.4	3.8*	5.2	0		0	2.7	0	3.9	13.2	0	0	25
26	4.4	2.9	4.4	0		0	3.2	0.7	3.9	13.6	0	0	26
27	4.4*	3.8	4.1	0		0	3.8	2.6	4.8	13.0	0	0	27
28	4.3	3.9	4.1	0		0	3.2	3.0	5.8	7.5	0	0	28
29	4.2	4.4	4.1*	0		0	3.2	3.4	4.2	2.4	0	0	29
30	4.3	4.6	4.2	0		0	4.2	3.2	3.7	0	0	0	30
31	4.3		3.7	0		0		3.3		0	0	0	31
MEAN	4.6	3.9	3.6	1.8		0.1	2.3	2.5	3.7	6.1	3.1	4.9	MEAN
MAX	5.7	5.2	5.9	4.6		0.7	9.8	4.5	5.8	14.9	12.7	13.3	MAX
MIN	4.1	0.8	2.3	0		0	0	0	0	0	0	0	MIN
AC FT	284	235	224	113		5	137	154	222	373	190	292	AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
3.1											2229

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 04 06	119 01 06	SE 26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.4				0	3.6		0	4.8	5.9	7.1		1
2	5.9				0	3.6		0	4.8	0.9	7.5		2
3	5.7				0	3.6		0	4.7	0.1	8.0		3
4	5.4				0	3.6		0	5.3	1.6	6.1		4
5	5.4				0	3.6		0	6.7	0.6	6.7		5
6	5.4				0	3.6		0	7.1	7.6*	7.3*		6
7	5.4				0	3.6		0	6.7	7.3	7.8		7
8	0.4				0	3.6		0	5.9	7.5	8.2		8
9	0				0	3.7*		0	5.7	7.8	8.5		9
10	0				0	3.7		0	5.9	8.0	8.2		10
11	0				0	3.5		0	5.9	7.6	8.5		11
12	0	N	N	N	0	3.4	N	0	6.1	7.3	8.8	N	12
13	0	O	O	O	0	3.4	O	0	6.1	6.9	4.2	O	13
14	0				0	3.3		0	6.1	6.6	1.3		14
15	0				0	3.3		0	6.6	6.4	0.5		15
16	0	F	F	F	0	3.3*	F	0	7.1	6.4	0	F	16
17	0	L	L	L	0	3.4	L	0	7.5	6.1	0	L	17
18	0	O	O	O	0	3.4	O	0	7.5	5.9	0	O	18
19	0	W	W	W	0	1.7	W	0	7.6	5.9	0	W	19
20	0				0	0.7		0	7.8	6.1	0		20
21	0				0	0.7		3.2	8.0	6.2	0		21
22	0				0	0.7		4.7	7.8*	6.2	0		22
23	0				0	0.6		4.8	6.7	6.4	0		23
24	0				0	0		4.8	5.9	6.7	0		24
25	0				0	0		4.2	6.1	6.7	0		25
26	0				1.7*	0		4.0	5.9	6.7	0		26
27	0				3.6	0		4.0*	5.9	6.7	0		27
28	0				3.6	0		3.6	5.9	6.9*	0		28
29	0				0	0		3.0	5.9	6.9	0		29
30	0				0	0		3.1	5.9	7.1	0		30
31	0				0	0		4.1		7.1	0		31
MEAN	1.3				0.3	2.2		1.4	6.3	6.0	3.2		MEAN
MAX.	5.9				3.6	3.7		4.8	8.0	8.0	8.8		MAX.
MIN.	0				0	0		0	4.7	0.1	0		MIN.
AC. FT.	77				18	134		86	377	369	196		AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	DISCHARGE	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	GAGE HT. MO. DAY TIME	DISCHARGE GAGE HT. MO. DAY TIME	ACRE FEET
1.7				1257

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CF5	GAGE HT.	DATE						
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE		1948	TO	0.00	LOCAL
Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	76.0	81.1	36.1	70.0	63.8	76.6	95.0	.7	73.2*	3.6	4.4	6.2	1
2	105.2	83.0	37.8	70.0	62.2	70.5	93.2	.8	76.6	3.3	4.5	6.2	2
3	105.8	83.0	37.4	68.9	61.3	70.5	100.8	31.5	76.6	2.9	9.2	6.0	3
4	103.3	83.0	37.4	67.9	68.4	72.6	102.6	71.5	76.0	2.9	46.1	5.8	4
5	103.3	83.0	33.9	70.5	77.8	72.6	105.2	76.6	77.2	2.7	65.9	9.6	5
6	105.8	83.6	30.2	72.6	80.0	69.4	95.0*	76.6	79.0	32.6	70.5	5.4	6
7	108.3	84.1	29.0	48.6	80.0	66.9	85.6	76.0	78.4	78.4	65.9	5.6	7
8	103.3	79.0	28.3*	11.4	80.0	66.9	87.9	76.6	34.7	81.8	65.6	6.8	8
9	92.0	72.1	27.4	7.2	80.6*	66.9	86.8	67.4	4.2	81.8	66.4	9.6	9
10	85.6	70.0	26.6	7.1	78.4	66.4	48.6	59.9	4.2	80.6	72.1	9.4	10
11	83.6	69.4	25.8	7.0	70.5	65.9	16.9	23.9	4.1	79.5	77.2	9.4	11
12	83.6	68.4	25.5	6.8*	67.4	72.1	11.4	3.8	4.1	77.2	77.2	9.6	12
13	83.6	67.9	27.0	27.0	67.4	75.5*	10.8	3.9	4.1	73.8*	76.6	9.8	13
14	84.1	66.9	28.0	55.0	66.9	74.4	8.6	3.8	4.1	28.4	38.6	9.8*	14
15	84.1	65.4	27.4	69.4	66.9	74.4	3.6	3.4	47.2	3.6	4.4	4.2	15
16	84.6	65.4	31.8	79.5	70.5	89.0	0	3.3	74.4	3.6	4.4	1.7	16
17	83.6	64.9	37.8	73.8	72.6	98.8	0	32.6	74.4	3.6	4.4	1.9	17
18	83.0	66.4	37.8	75.0	73.8	96.2	5.4	70.5	74.4	3.5	4.4	2.0	18
19	81.8	66.4	37.8	72.1	74.4	101.4	58.0	76.6	73.8	3.8	4.6	2.4	19
20	81.1*	66.4	38.2	67.9	73.2	104.0	83.6*	78.4	73.8	11.9	4.8	2.5	20
21	79.5	46.1	19.4	65.4	73.2	100.8	86.8	79.0	73.2	27.4	4.9	7.0	21
22	79.5	35.2	9.8*	63.2	73.2	99.4	85.1	78.4	32.2*	26.6	5.4	8.7	22
23	80.0	35.8	35.2	59.4	73.2	99.4	80.6	79.5	3.6	24.5	5.4	10.4	23
24	79.0	35.8	66.9	52.8	73.8*	95.0	77.8	79.5	4.3	21.8	5.4	10.6	24
25	76.0	35.8	68.4	51.0	76.0	92.0	76.0	29.8	4.2	20.7	5.6	10.8	25
26	75.5	36.1	68.9	51.0	79.0	91.4*	79.0	2.5	3.5	20.7	6.0	10.8	26
27	81.1	35.8	70.0	50.5	79.5	92.0	29.4	2.2	3.5	21.0	6.0	11.1	27
28	84.6	35.2	69.4	50.5	79.5	93.2	2.2	2.1	3.5	21.3*	6.0	10.8	28
29	81.8	34.8	68.9	52.0	93.8	.8	1.8	3.5	3.5	22.2	6.0	10.8	29
30	77.8	33.9	69.4	54.0	93.8	.2	4.5	3.5	3.5	17.0	6.0	8.0	30
31	75.5		70.0	60.4	93.8		34.2			4.4	6.2		31
MEAN	86.8	61.1	40.6	52.8	73.0	83.7	53.9	39.7	38.3	28.6	26.8	7.3	MEAN
MAX	108.3	84.1	70.0	79.5	80.0	104.0	105.2	79.5	79.0	81.8	77.2	11.1	MAX
MIN.	75.5	33.9	9.8	6.8	61.3	65.9	0	0.7	3.5	2.7	4.4	1.7	MIN.
AC. FT.	5340	3637	2494	3249	4053	5148	3207	2442	2280	1760	1646	434	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL
49.3	DISCHARGE	GAGE HT.	NO	DAY	DISCHARGE	GAGE HT.	NO	DAY	ACRE FEET
									35691

LOCATION			MAXIMUM DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1.4 SEC T & R M D B & M	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT.			FROM	TO	
36 03 18	119 00 54	SW36 21S 27E			APR 42-DATE		1942		0.00 LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.3	0.9	0	4.3			12.2	4.2	1.4	1.6	6.7	8.5	1
2	2.2	0.9	0	4.3		0	12.6	4.3	0.6	1.0	7.8	3.8	2
3	2.4	0.9	0	4.1		0	15.9	5.9	0.7	0	8.7	0	3
4	2.6	0.9	0	3.8		0	21.3	5.0	0.7	0	4.0	0	4
5	2.7	0.9	0	3.9		0	23.5	4.2	2.2	0	2.7	0	5
6	2.6	0.9	0	4.9		0	2.5	4.6	4.3	0	5.7*	0	6
7	2.4	0.9	0	3.7		0	0.8	3.6	4.9	0	8.4	0	7
8	2.1	0.8	0	3.1		0	7.1*	3.9	5.0	0	9.4	0.9	8
9	1.8	0.8	0	3.9		0	9.4	4.4	5.3	0	9.5	4.5	9
10	1.9	0.8	0	3.9		0	9.4	3.0	2.6	0	10.2	6.0	10
11	1.5	0.8	0	3.7		0	9.0	0	0.7	0	10.8	5.5	11
12	1.2	0.8	0	2.3*	N	0	12.2	0	2.8	0	10.6	5.6	12
13	1.1*	0.8	0	0	O	1.9	8.2	0	4.6	1.8	10.2	5.9	13
14	1.1	0.8	0	0		1.6	0	0	4.6	5.7	7.0	6.1*	14
15	1.1	0.8	0	0		0	0	0	4.9	6.3	4.5	6.5	15
16	1.1	0.8	0	0	F	0	0	0	5.3*	6.4*	1.3	7.2	16
17	1.0	0.8	0	0	L	0	0	0	5.2	6.3	0	7.2	17
18	1.0	0.8	1.6	0	O	0	0	0	5.3	6.2	1.9	7.3	18
19	0.9	0.8	3.3	0	W	0	0	0	6.4	6.4	5.4	7.6	19
20	0.9	0.8	4.8	0		0	0	3.4	9.0	5.4	5.6	5.3	20
21	0.9	0.8	3.1	0		0	0	3.6*	8.8	0	6.7	1.4	21
22	0.9	0.8	1.4	0		0	0	6.0	8.0	0.4	7.3	0	22
23	0.9	0	3.7	0		0	0	10.0	9.0*	5.1	7.4	3.6	23
24	0.9	0	3.2	0		0	0	10.8	9.0	7.3	7.9	6.2	24
25	0.9	0	3.7	0		0	0	9.4	9.9	7.5	7.4	6.2	25
26	0.9	0	3.9	0		3.2	0	6.9	9.7	7.2	7.1	8.2	26
27	0.9	0	4.2	0		6.7	0	6.1	9.5	6.6	7.5	8.7	27
28	0.9	0	4.2	0		8.0	3.6	2.1	9.4	6.8	6.9	9.1	28
29	0.9	0	4.2*	0		9.1	4.6	1.3	9.5	7.1	7.6	8.6	29
30	0.9	0	4.2	0		9.0*	4.6	1.5	6.2	7.2	8.3	2.6	30
31	0.9	0	4.3	0		9.1		1.5		6.9	9.2		31
MEAN	1.4	0.6	1.6	1.5		1.6	5.2	3.4	5.5	3.5	6.9	4.8	MEAN
MAX.	2.7	0.9	4.8	4.9		9.1	23.5	10.8	9.9	7.5	10.8	9.1	MAX.
MIN.	0.9	0	0	0		0	0	0	0.6	0	0	0	MIN.
AC FT	87	36	99	91		96	311	210	328	217	424	283	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL	ACRE FEET
3.0														2162	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R MDB & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF.	DATUM	
			CF5	GAGE HT	DATE							
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942	TO	0.00	LOCAL	

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (CONT.)													
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
				WATER YEAR		STATION NO.		STATION NAME					
				1970		C03948		WOODS-CENTRAL DITCH NEAR PORTERVILLE					
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	34.4	79.8	72.9	51.5	66.5	135.0			0	148.0*	155.0		1
2	84.6	78.7	72.3	48.8	66.5*	111.0			0	63.8	149.0		2
3	90.0	77.1*	72.9	43.5	67.5	101.0			0	2.2	154.0		3
4	89.4	75.0	72.3	40.5	67.0	101.0			0	0	66.1		4
5	87.3	74.5	72.3	44.5	70.7	91.6			132.0	0	0		5
6	91.6	76.1	71.8	50.9	79.3	77.1			127.8E	51.5	0		6
7	98.5	76.6	71.3	49.3	73.9	70.7			140.0E	86.2	0		7
8	97.5	75.5	71.8	46.1	75.0	71.3			135.0E	107.0	0		8
9	97.5	75.0	69.7	48.3	73.4	71.3*			140.0	147.0	0		9
10	97.5	75.0	65.9	47.7	75.5	70.7			138.0	162.0	0		10
11	92.6	75.0	67.0	47.7	79.8	70.2			132.0	149.0	0		11
12	91.0	75.0	69.1	48.8*	76.1	69.7	N	N	131.0	135.0	0	N	12
13	91.6	74.5	70.2	48.3	76.6	69.7	O	O	136.0	141.0	0	O	13
14	91.6	75.0	73.9	53.6	76.1	74.5			146.0	141.0	0		14
15	92.1	75.0	70.7*	70.2	80.4	82.5			139.0	134.0	0		15
16	92.6	73.9	70.2	85.7	88.9	85.7	F	F	139.0	140.0	0	F	16
17	93.7	74.5*	70.2	85.7	94.8	95.3	L	L	143.0	140.0	0	L	17
18	95.3	76.6	69.7	86.8	94.3	104.0	O	O	142.0	136.0	0	O	18
19	93.7	77.7	68.6	84.1	93.7	115.0	W	W	136.0	142.0	0	W	19
20	94.3*	77.7	67.0	75.0	94.8	124.0			142.0	148.0	0		20
21	95.3	72.9	66.5	69.7	99.1	124.0			151.0	140.0	0		21
22	94.8	71.3	70.2	50.9	101.0	125.0			154.0*	119.0	0		22
23	88.4	75.0	72.9	41.5	120.0	126.0			145.0	130.0	0		23
24	84.1	73.4	71.8	42.5	140.0*	72.0			153.0	142.0	0		24
25	82.0	73.4	72.9	44.0	146.0	0			173.0	154.0	0		25
26	79.8	73.9	67.5	44.0	147.0	0			174.0	157.0	0		26
27	80.4	73.9	63.2	47.7	148.0	0			173.0	162.0	0		27
28	78.2	73.4	65.4	49.3	149.0	0			173.0	161.0	0		28
29	75.5	72.9	67.5*	52.6	0	0			172.0	164.0	0		29
30	78.7	72.9	70.2	54.7	0	0			164.0	163.0	0		30
31	79.8	60.0	60.0	58.4	0	0			0	156.0	0		31
MEAN	87.5	75.0	69.6	55.2	93.6	72.2			127.8	123.3	16.9		MEAN
MAX.	98.5	79.8	73.9	86.8	149.0	135.0			174	164	155		MAX.
MIN.	34.4	71.3	60.0	40.5	66.5	0			0	0	0		MIN.
AC FT.	5383	4465	4280	3396	5198	4440			7604	7580	1040		AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
59.9											43,386

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT DMLT	PERIOD		REF DATUM
			CF\$	GAGE HT	DATE			FROM	TO	
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1610	1276	1272	583	613	601	1236	700	1096	1312	1560	801	1
2	1626	1173	638	585	604	615	1293	776	1195	1328	1571	823	2
3	1627	1234	612	562	599	608	1312	783	1318	1329	1581	829	3
4	1625	1496	587	519	593	690	1310	809	1426	1348	1637	833	4
5	1650	1532	565	470	597	693	1279	813	1520	1461	1681	787	5
6	1685	1605	549	401	597	638	1253	811	1494	1570	1678	778	6
7	1683	1548	532	378	596	646	1159	808	1746	1581	1704	771	7
8	1689	1564	524	375	694	594	1080	771	1437	1641	1752	780	8
9	1691	1618	516	378	594	693	1143	709	957	1671	1775	766	9
10	1693	1635	496	383	594	704	1184	685	1562	1680	1766	644	10
11	1691	1693	478	384	593	628	1128	710	1494	1663	1749	591	11
12	1690	1686	464	416	594	683	1053	727	1442	1699	1717	506	12
13	1711	1690	448	581	595	743	1050	733	1345	1673	1640	490	13
14	1772	1696	435	603	596	719	997	756	1296	1613	1617	594	14
15	1779	1677	421	604	600	722	962	713	1324	1539	1562	621	15
16	1804	1620	429	1124	609	734	936	760	1392	1510	1490	666	16
17	1803	1575	435	1003	610	764	908	811	1452	1460	1472	672	17
18	1809	1377	437	984	603	842	904	867	1518	1416	1442	580	18
19	1809	1642	437	828	602	889	888	930	1560	1413	1413	477	19
20	1751	1642	545	873	563	921	914	965	1568	1435	1433	475	20
21	1694	1650	569	868	534	964	916	993	1589	1448	1385	485	21
22	1757	1641	579	868	529	933	916	1017	1629	1495	1319	470	22
23	1770	1512	583	860	530	1041	904	1065	1716	1562	1236	499	23
24	1746	666	582	862	529	1118	884	1078	1737	1609	1241	486	24
25	1683	1542	581	863	529	1216	847	1072	1723	1510	1189	465	25
26	1633	1564	581	857	520	1218	770	1042	1606	1513	1158	438	26
27	1537	1573	580	867	532	1164	830	1028	1508	1539	1179	430	27
28	1457	1539	581	859	583	1071	771	1076	1432	1606	1031	421	28
29	1437	1400	583	847	1057	1077	745	1043	1384	1619	922	406	29
30	1379	1373	582	829	1189	1189	729	993	1348	1611	853	398	30
31	1383		582	812	1214	1214		1029		1594	826		31
MEAN	1667	1521	555	688	580	854	1010	873	1460	1531	1438	599	MEAN
MAX.	1809	1696	1272	1124	613	1218	1312	1078	1746	1699	1775	833	MAX.
MIN.	1379	666	421	375	520	601	729	685	957	1312	826	398	MIN.
AC FT.	102494	90523	34122	42299	32206	52489	60101	53698	86904	94112	88421	35667	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN
DISCHARGE 1068

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

TOTAL
ACRE FEET 773000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	1893-DATE					

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Land Company. Drainage area is 2,407 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	007120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN													MIN
AC FT													AC FT

INSUFFICIENT DATA TO PUBLISH DAILY FLOWS

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
		1.70	2	3	1800	0.00		10	1	0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
35 12 21	119 24 35	NW26 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

TABLE B-5

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Fancher Creek at Friant-Kern Canal	Fresno Canal	NW $\frac{1}{4}$, Sec 12, T13S, R22E	1-16-70		215
Holland Creek near Orangedale School	Kings River	SE $\frac{1}{4}$, Sec 23, T13S, R23E	1-16-70		26.3
Mud Creek at Shields Avenue	Gould Canal	SW $\frac{1}{4}$, Sec 19, T13S, R23E	1-16-70		47.9
Owens Creek at McNamara Road	San Joaquin River via Eastside Bypass	NE $\frac{1}{4}$, Sec 20, T8S, R12E	1-16-70		147
San Joaquin River below Chowchilla Bypass (Floatwell #3) (a) (b)	San Joaquin River	NE $\frac{1}{4}$, Sec 25, T13S, R15E	1-26-70	165.80	276
			1-28-70	166.92	655
			2- 3-70	166.40	458
			2- 6-70	168.36	1770
			2-17-70	165.55	182

(a) Recording gage.

(b) Daily mean discharges are available.

TABLE B-6
DIVERSIONS

Monthly and annual acre-feet of water diverted are shown in this Table for the San Joaquin, Stanislaus, Tuolumne, Merced, and Tule Rivers, and Dry Creek, a tributary to the Tuolumne River, for the 1970 water year. Diversion points which divert less than 200 acre-feet annually based on a three-year average are discontinued from the program. This allows for collection and publication of approximately 95 percent of the water diverted for use by measuring and collection of record on about 50 percent of the total diversion points.

Monthly diversion values have been rounded off as follows:

1. Individual diversions - acre-feet

0.0	- 999	nearest	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Total monthly diversion - cubic feet per second

All values to nearest unit.

3. Monthly use in percent

All values to nearest tenth.

Data received from outside agencies are published as received and are not necessarily rounded to the criteria used by the Department of Water Resources.

TABLE B-6
DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
October 1969 through September 1970

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--DURHAM FERRY BRIDGE--	76.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7														
Moresco Brothers	78.9 R	1-14 1-24						265	844	772	582	635	336	111	a 3545
Cruze, Amoral and Gillemeister	79.4 R	1-20							1	58	74	110	81	40	364
--STANISLAUS RIVER--	79.7 R														
Faith Ranch	79.8 R	1-16	34					81	173	137	185	180	192	120	1102
W. C. Blewett Estate	80.7 L	1-12							105	64	87	203	276	124	898
W. C. Blewett Estate	81.8 L	2-12 1-14	197					312	564	509	1210	1060	1250	612	5714
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85														
Blewett Mutual Water Company	81.95L	1-10 2-12 1-14						109	1060	1040	825	1000	982	517	5533
El Solyo Water District	82.0 L	1-10 1-16 3-18	167				73	410	2750	2530	1840	3100	2480	716	14070
--HETCH HETCHY AQUEDUCT CROSSING--	82.65														
El Solyo Ranch	82.9 L	1-16								85	224	250	116		675
El Solyo Ranch	83.5 L	1-12							46	49	168	222	206	166	857
El Solyo Ranch	83.7 L	1-12							157	209	220	217	95		898
Faith Ranch	84.4 R	1-16 1-20	383	51	60	6	9	268	823	1140	1160	834	671	740	6145
--GAGING STATION - SAN JOAQUIN RIVER AT CALDWELL--	91.0 L														
--TUOLUMNE RIVER--	91.0 R														
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8 L														
West Stanislaus Irrigation District	91.8 L	1-12 1-24 6-26	1450	424	572	185	596	4880	11350	12450	9730	8800	8480	5430	64350
Fred Lara #1	* (0.65)	1-14	19		1		127	1	147	227	360	429	107	233	1651
E. E. Hagemann Ranch #1	* (0.7N)	3-16	18					268	727	557	705	793	622	500	4190
E. E. Hagemann Ranch #2	* (1.1N)	1-14 1-16						72	858	499	457	879	441	428	3634
Fred Lara #2	* (2.25)	1-16	9	2	8				26	20	19	8			92
E. E. Hagemann Ranch #3	* (2.3N)	2-16						20	336	95	402	452	409	246	1960
John and Robert Bogetti	92.1 R	1-12	60								237	323			620
John and Robert Bogetti	93.1 R	1-10 1-12 1-14	120						493	249	500	1338	948	823	4471
George Covert	94.1 L	1- 3 1- 6						NO DIVERSION							
Rancho Dos Rios	94.7 R	1-12	100	4	3	1	4	115	152	167	208	369	404	195	1722
E. L. Brazil	95.5 R	1-16	11						27	136	25	333	255	96	883
Island Dairy	96.0 L	1-18	110	3	1	4		314	262	165	432	791	636	365	3083
--LAIRD SLOUGH BRIDGE--	96.05														
Rancho El Pescadero	98.9 L	1-18									4	304	141	12	461
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4 L														
Patterson Water District	104.4 L	1-14 2-18 3-20 1-36	38				174	127	9460	6970	7850	9360	8720	4710	47410
Chase Brothers	104.5 R	1-18	181					6	247	260	653	342	387	353	2429
--PATTERSON BRIDGE--	104.6														
Chase Brothers	106.5 R	1-12	330						109	455	625	303	532	528	2882
Tony Spinelli	109.1 R	1-12	21					12	31	28	42	36	16	57	243
Twin Oaks Irrigation Company	109.8 L	1-12 1-16 1-18 1-20	200					362	1530	1540	1260	2320	1640	704	9556
Francisco S. Mendonca	b 110.8 R	1- 8										99	35	36	170
L. A. Thompson	112.55R	1-18						27	59	31	96	201	167	106	687
O. R. Lemos	113.4 R	1-12	1			23	16	38	31	128	95	153	130	113	728

TABLE B-6 (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
October 1969 through September 1970

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT ACRE-Feet	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	113.4														
D. R. Lemos	114.63R	1- 8								34	34	72	58	24	215
Arnold and Ben Souza	114.75R	2-10	61					174	138	335	317	546	516	381	2461
--ORESTIMBA CREEK--	115.2 L														
Roy F. Crow	115.8 L	1-10	51					289	85	324	192	245	81		1261
L. B. Crow	116.05L	1-14	21					50	11	206	131	244	210	93	1072
Katherine Greer	c 116.15R	1- 8	21					27	27	49	56	101	74	41	396
Katherine Greer	c 116.5 R	1-12							223	317	162	236	366	340	1644
Manuel A. Serpa	121.3 R	1-10 1-18	375		3			73	130	110	431	692	711	503	3028
--MERCED RIVER SLOUGH--	122.2 R														
Stevinson Corporation	122.61L	1-16						22	117	272	124	179	91	193	998
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1 R	1-16	125					44	107	226	236	38	24	28	828
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
<u>VERNALIS TO FREMONT FORD BRIDGE</u>															
Total			4103	464	648	219	999	8366	33310	32445	31960	37800	32880	19680	202800
Average cubic feet per second			67	8	11	4	18	136	560	528	537	615	535	331	280
Monthly use in percent of seasonal			2.0	0.2	0.3	0.1	0.5	4.1	16.4	16.0	15.8	18.6	16.3	9.7	

a Includes an undetermined amount of water returned to river by spill.

b Formerly listed as T. J. Henderson.

c Formerly listed as John W. Greer.

* West Stanislaus Irrigation District Intake Canal joins the San Joaquin River at mile 91.8L. Distances from the river and bank location of diversion are shown in parentheses.

TABLE B-6 (Cont.)
DIVERSIONS - SAN JOAQUIN RIVER
(Fremont Ford Bridge to Gravelly Ford)
October 1969 through September 1970

WATER USER	MILE AND BANK ASIDE OF PUMP MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET										TOTAL DIVERSION OCT-SEPT ACRE-FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5													
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVENSON--	136.7													
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0													
San Luis Canal Company	186.6 L	Gravity	10834	6960	2674		3713	11445	17131	19873	25176	28423	26416	18527
--FIREBAUGH BRIDGE--	198.4													
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--	208.63													
--MENDOTA DAM--	208.8 L	Gravity	17217	3943	432		10825	38445	57237	61824	66866	78277	75862	38555
Central California Irrigation District														a 449483
--FRESNO SLOUGH--	b 209.0 L													
--DELTA-MENDOTA CANAL--	(0.2L)													
Firebaugh Canal Company	b (0.4L)		1649	1593	60	1301	4913	4074	9657	4205	5909	6311	7044	4679
M. L. Dudley	b (3.4L)							151	375	315	488	482	222	12
State of California Mendota Waterfowl Management	b (6.45-8.20)		4370	1954	224				1099	1406	1632	3088	2521	4413
Fresno Slough Water District	b (9.20-10.50)		30				315	557	426	403	426	672	510	169
--JAMES BYPASS--	(11.80R)													
Traction Ranch	d (0.75)		325	589	8			458	571	708	738	1226	1410	347
Reclamation District 1606	d (1.50)							26	12	26	61	91	32	10
James Irrigation District	d (4.4)		401		155		4657	4576	4171	6508	7857	9148	6998	1256
Tranquillity Irrigation District	b(12.00-13.75)		226		258		2830	3679	2099	3374	4866	6694	4715	1351
Melvin D. Hughes	b (12.20)							22						
--LONE WILLOW SLOUGH--	219.8 R													
Columbia Canal Company	219.8 R		2771	980	6	377	2801	5784	6173	7154	8305	9178	9082	6385
State Center Land Company		e 1-6		278	147	10								171
M. Beck		f 1-8		36	6									
Tulie Gun Club		g 1-8		24	2									
Westlands Water District			417					635	2279	1686	2963	2944	2785	678
Grasslands			20091	8033										9219
J. W. Wilson								50	99	36	58	192	125	
Laguna Water District											46	125	125	104
Pacheco Water District										800	1200	1700	745	
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83													
--GRAVELLY FORD CANAL--	232.8 R													
<u>FREMONT FORD BRIDGE TO GRAVELLY FORD</u>														
Total			58869	24207	3827	1678	30054	69902	101329	108318	126591	148551	138592	85878
Average cubic feet per second			957	407	62	27	541	1137	1703	1762	2127	2416	2254	1443
Monthly use in percent of seasonal			6.6	2.7	0.4	0.2	3.3	7.8	11.3	12.1	14.1	16.5	15.4	9.6

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and include operational spill. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

- a Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
b Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 209.0L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
c Total does not include Firebaugh Canal Company deliveries from the Delta-Mendota Canal.
d Plant is located on James Bypass which diverts from Fresno Slough at mile 11.80R. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
e One 6-inch pump located on arm of slough at SW corner S. 12, T. 14S., R. 15 E.
f One 8-inch pump located on arm of slough 1400 feet S. of NE corner, S. 24, T. 14 S., R. 15 E.
g One 8-inch pump located on arm of slough adjacent to M. Beck.
h Does not include 482 acre-feet delivered from the Delta-Mendota Canal via San Luis Water District to Westlands Water District.

TABLE 2-6 (Cont.)
DIVERSIONS - SAN JOAQUIN RIVER
(Gravelly Ford to Friant Dam)
October 1969 through September 1970

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-Feet
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
Carl M. Hobe	233.03R	2- 6	131	94					94	117	31	147	341	250	1,466
United Packing Company	233.63L	1-12 a	40					54	86	100	179	114	44	27	712
--SKAGGS BRIDGE--	238.26														
--U. S. HIGHWAY 99 BRIDGE--	247.38														
--SANTA FE RAILROAD BRIDGE--	249.23														
Miller Brothers	251.46L	1- 6		21	1			34	6	34	54	54	4	7	424
Sycamore Island Stock Ranch 5	255.34R	1- 6	59							27	44	27	36	32	234
Sycamore Island Stock Ranch 2	256.52R	1- 8	19						31	26	37	37	34	44	228
Oscar Spano River Ranch 1	257.10L	1-16	114	6				88	277	261	333	214	274	234	1,814
Oscar Spano River Ranch 2	257.70L	1-12	18					52	104	177	20	173	160	138	1,113
James Sims	258.08R	1- 6 1- 7	4						11	20	98	121	143	6	403
--STATE HIGHWAY 41 BRIDGE	258.33														
W. E. Roberts 2	258.90L	1-12	110	4				25	113	144	164	124	187	134	1,036
J. E. Cobb	259.39R	2- 6	3				5		14	22	47	76	67	13	247
--OLD LANES BRIDGE--	259.78														
J. E. Cobb 3	260.40R	1- 6	24					33	38	124	105	133	126	44	495
R. C. Arnold	261.53R	1- 4 1- 5	20	2				19	36	84	90	108	127	74	566
Duane M. Folsom	261.70L	1- 6						27	56	32	17	27	17	2	167
E. G. Rank, Jr.	262.32L	1- 5						26	61	40	5	83	41	28	329
E. G. Rank, Jr. 2	262.34L	1- 6						8	13	20	37	50	57	27	200
W. H. Rohde	262.66L	1- 7						14	30	21	31	39	48	21	204
H. K. Jensen	263.76R	1- 5	41	1					1	58	6	64	48	23	355
W. F. Ball 2	264.04L	1- 6						NO DIVERSION							
Ike D. Ball	264.60R	1- 6	81	7				24	6	110	46	107	103	93	780
W. F. Ball 1	264.83L	1- 4 1- 6	46	7		1		17	33	62	77	67	71	67	446
Virgil Durando	267.56L	1- 8	17					17	38	69	106	197	202	104	1,016
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L														
--FRIANT BRIDGE--	268.88														
--COTTONWOOD CREEK--	269.53R														
--FRIANT DAM--	269.63														
<u>GRAVELLY FORD TO FRIANT DAM</u>															
Total			134	177	13			49	299	177	211	211	229	141	1,211
Average cubic feet per second			13	33	1			4.9	22	4	6	34	36	24	17
Monthly use in percent of seasonal			6.4	17	1			3.4	17	12.6	7	11.1	10.7	11.9	11

a Replaces a 6" unit.

TABLE B-6 (Cont.)
DIVERSIONS - STANISLAUS RIVER
October 1969 through September 1970

WATER USER	MILE AND BANK ABOUT MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT. ACRE-FEET
			OCT.	NOV	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Moresco Brothers	1.9 R	1-16							64	67	18	48	42	11	250
C. C. Anygal	2.4 R	1-18	68						44	532	206	295	457	394	a 1996
Faith Ranch	3.4 L	2-12 1-16	148	4			32	330	537	696	546	529	574	500	3896
Reclamation District 2064	4.0 R	1-14 1-16 2-20	326		6			417	1450	1290	1950	1860	1980	1180	10460
Reclamation District 2075	4.05R	2-16 1-20	477	78	24	24		725	2500	2590	2540	2850	2990	2360	17160
D. F. Koetitz	4.7 L	1-20	46						202	115	324	360	222	205	1474
E. T. Mape	4.75L	1-20			75					141		171	167	175	729
Henry Pelucca	5.5 L	1-16					2		109	110	105	121	105	102	654
Bernard Wend	6.4 L	1-14	68					85	124	110	93	127	120	183	a 910
O. J. Macedo	8.4 R	1-16	68					3	421	441	211	487	493	458	2582
N. E. Cannon	8.7 R	1-10	43					34	302	333	346	336	274	182	1850
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.35														
D. F. Koetitz	9.4 L	1-12	8	3	1		4	143	349	366	204	307	321	387	2093
John L. Hertle	9.8 L	1-10							34	62	38	63	79	31	307
Joe Lourence	10.0 R	1-16	47	17								132	107	11	a 314
Joe Lourence	10.5 R	1-16	54	8	5					125	96	86	200	152	726
--GAGING STATION - STANISLAUS RIVER AT RIFON--	15.7 L														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7														
--U. S. HIGHWAY 99 BRIDGE--	15.7														
A. Girardi	17.7 L	1-16						3	280	110	177	341	274	97	a 1282
Estate of Robert Paul Barton and Alice Lee Barton	19.0 R	1-14	8					106	55	210	217	298	352	157	a 1403
Libby, McNeill and Libby	20.9 R	1-14						54	120	436	323	457	260	259	1909
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
--SANTA FE RAILROAD BRIDGE--	33.4														
Oakdale Irrigation District b (Crawford Pump)	37.7 L	1-14						15	124	64	188	157	176	22	a 746
Oakdale Irrigation District b (Brady Pump)	39.1 L	1-12					1	40	117	98	132	222	161	48	819
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2														
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0														
--KNIGHTS FERRY BRIDGE--	54.5														
<u>STANISLAUS RIVER</u>															
Total			1361	110	111	24	39	1955	6832	7896	7714	9247	9354	6914	51560
Average cubic feet per second			22	2	2	0	1	32	115	128	130	150	152	116	71
Monthly use in percent of seasonal			2.6	0.2	0.2	0.1	0.1	3.8	13.3	15.3	15.0	17.9	18.1	13.4	

a Includes an undetermined amount of water returned to river by spill.

b Oakdale Irrigation District for season of 1970 maintained plants at miles 37.7L and 39.1L to supplement district gravity supply.

TABLE B-6 (Cont.)
DIVERSIONS - TUOLUMNE RIVER
October 1969 through September 1971

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
E. T. Mape	1.3 R	2-14	415					130	444	992	699	928	1055	472	4645
John and Robert Bogetti	1.9 L	3-12	52					16	117	707	905	74	22	1893	
John and Robert Bogetti	2.9 L	1-10 1-12	30					109	118	70	279	318	390	381	1695
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILOH BRIDGE)--	3.35														
Bancroft Fruit Farms	5.0 R	1-10					5	10	39	40	58	50	29	281	
Della Battestein	5.9 L	1-16						NO DIVERSION							
Western Farms	6.3 L	1-16						14	115	10	89	197	149	45	709
Eugene Boone, Galen Hartwich, and Ted Gonzales	7.1 R	1-10						46	41	86	46	83	36	338	
Elmer Hyer	8.4 R	1-10							45	53	50	74	87	368	
James A. McCleskey	9.4 L	1-16	1				2	23	593	363	466	530	479	45	2714
James A. McCleskey	9.7 R	1-16							203	164	216	123	161	17	884
Homer Couchman	10.2 R	1-14	16					38	141	74	95	155	163	95	777
--CARPENTER ROAD BRIDGE--	12.9														
--U. S. HIGHWAY 99 FREEWAY BRIDGE--	15.55														
--SEVENTH STREET BRIDGE--	15.75														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.05														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05														
--DRY CREEK--	16.5 R														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	20.3 R	1-10	18					22	53	51	63	66	68	68	416
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.65														
--GEER AVENUE BRIDGE--	26.0														
Michel Investment Company	28.8 R	1- 8						25	50	87	138	168	68	558	
Firpo Ranch	30.2 L	1-10	7		1			10	7		91	48	47	44	325
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.55														
Iva M. Ketcham	39.4 R	1- 8	6						72	106	103	96	136	111	632
Westley N. Sawyer	39.8 L	1- 8	1					1	19	78	155	15	131	13	690
--ROBERTS FERRY BRIDGE--	39.9														
Westley N. Sawyer	40.8 L	1-14	43						38	99	88	105	12	81	581
Zanker Brothers	45.7 L	1-10	40						92	5	6	79	87	41	409
Dolling Brothers	46.3 R	1- 8	21						61	57	66	116	84	60	465
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
<u>TUOLUMNE RIVER</u>															
Total			665		1			594	2236	1999	311	4143	3433	1801	1838
Average cubic feet per second			11		0			10	38	33	9	6	56	30	25
Monthly use in percent of seasonal			3.6		0			3.2	12.2	18.9	14.1	22.5	18.7	9.8	

a Formerly listed as Curtner Zanker.

TABLE B-6 (Cont.)

DIVERSIONS - DRY CREEK
October 1969 through September 1970

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--MODESTO-EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	0.7														
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8														
--LA LOMA BRIDGE--	1.2														
--EL VISTA AVENUE BRIDGE--	2.9														
--GAGING STATION - DRY CREEK NEAR MODESTO--	5.4 L														
--CLAUS ROAD BRIDGE--	5.4														
--SANTA FE RAILROAD BRIDGE--	6.4														
--CHURCH STREET BRIDGE--	7.2														
--WELLSFORD ROAD BRIDGE--	8.7														
--ALEERS ROAD BRIDGE--	11.0														
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1														
Edward Johnson	12.6 R	1- 6								2	13	62	45	6	128
Edward Johnson	12.7 R	1- 6										41	56	11	108
Quinn River Sonora Company a	14.7 R	1-10	41					18	24	1	44	24	25	32	209
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4														
DRY CREEK															
Total			41	0	0	0	0	18	24	3	57	127	126	49	445
Average cubic feet per second			1	0	0	0	0	0	0	0	1	2	2	1	1
Monthly use in percent of seasonal			9.2	0	0	0	0	4.1	5.4	0.7	12.8	28.5	28.3	11.0	

a Formerly listed as Joe Fagundes.

TABLE B-6 (Cont.)
DIVERSIONS - MERCED RIVER
October 1963 through September 1964

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRES - FEET												TOTAL DIVERSION OCT-SEPT ACRES- FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
--MILLS FERRY BRIDGE--	1.1														
Stevenson Water District	1.7 R	1-20						491	48	22	19	231	23	12	422
Stevenson Water District	3.3 L	1-20						351	378	35	45	338	644	13	266
Stevenson Water District	3.8 R	1-18	45				12	5	106	236	413	441	189	4	192
J. E. Thomas	4.3 L	1-16	6					6	123	24	2	22	3	44	240
--GAGING STATION - MERCED RIVER NEAR STEVENSON--	4.6														
Edward DeAngelis	a 5.8 L	1-16 b						34	28	3	98	46	14	11	434
Stevenson Water District	6.1 L	1-20	62					11	39	2	354	415	296		1,403
Stevenson Water District	7.7 L	1-20						14	327	9	118	23	46		2
Manuel Clementino	8.5 L	1-12						69	4		82	23	144	6	446
Manuel Clementino	8.9 L	1-12	4					1		38	78	133	141		46
Samuel B. McCullagh	9.4 L	1-8	10				174	262	16	323	449	439	482	37	2672
Souza Brothers	c 9.6 L	1-12	20					16	39	47	67	36	90	18	368
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alves and A. Mattos	10.35L	1-10	38	218	142		12	4	74	1	209	31	48	1	1186
Manuel Freitas	10.9 L	1-12						128	116	7	32	152	118	11	14
R. E. Prusso and John Vieira	10.9 L	1-8 1-12	31					68	128	44	41	291	127	12	7
E. and J. Gallo Winery Ranch	11.6 L	1-18		182	296			139	186	286	675	689	107	4	256
--MILLIKEN BRIDGE--	11.65														
E. and J. Gallo Winery Ranch	e 12.5 R							PLANT REMOVED							
E. and J. Gallo Winery Ranch	12.85L	1-12	10					12	34		115	97	139		49
J. M. Souza	14.5 L							PLANT REMOVED							
E. and J. Gallo Winery Ranch	16.5 L	1-14	12					3	14	24	42	74			226
J. E. Gallo	20.4 L	1-8	32		22			52	62	12	125	122	44		471
--U. S. HIGHWAY 99 BRIDGE--	21.04														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05														
Gallo Cattle Company	22.2 R	1-8 1-16		12	50	4	29	114	224	141	335	262	262		1433
Gallo Cattle Company	22.8 R	1-10		44	3	320			61		101	198	193		604
Merced River Farms Association	26.3 R	1-8						8	42	8	34	22	31	10	15
--SANTA FE RAILROAD BRIDGE--	27.05														
--SANTA FE AVENUE BRIDGE--	27.1														
W. C. Magnuson	27.5 R	1-12						2		6	7	8	1	16	146
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55														
--CRESSEY BRIDGE--	27.55														
Manuel Silva	29.9 R	1-6 1-10								46		11	88	3	187
Manuel Silva	30.95R	1-12								31		175	80	13	421
Rancho Con Valor	31.1 L	1-8 1-12					6	3	19	34	52	98	19	43	274
Manuel Silva	31.4 R	1-10								78		123	21	43	461
P. Hilarides	32.2 L	1-12						2			1	27	51		96
--SHAFFER BRIDGE--	32.5														
Harry P. Schmidt and Sons	33.1 R	1-10							19	14	6	17	133	31	288
W. F. Rettencourt, P. Hilarides, and Cowell Line and Cement Co.	36.9 L	Gravity	152	27	18	15	14	9	402	121	1580	1410	974	488	6846
Amsterdam Orchards Incorporated	39.1 L	1-14				36		6	5	13	22	41	6	41	48
Ratzlaff Brothers	40.2 L	1-2 1-4						8	3	43	49	3	3		200
--COX FERRY BRIDGE--	42.1														
Cowell Ditch	45.3 R	Gravity	282	391	314	562	308	262	2634	3229	2071	2652	2622	1	27,400
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2														
Jorgenson Ditch	46.3 R	Gravity	1188	390	169	18	267	14	92	1334	2313	1354	12	688	9600
--SNELLING BRIDGE--	46.4														
Cook and Dale Ditch	47.0 R	Gravity	424	20	16	2	192	14	411	41	476	512	367	96	1,700
Ruddle Ditch	47.9 R	Gravity	217	1591	132	1888	164	136	2400	202	111	2693	209	223	27,200
Canevaro Ditch	48.5 R	Gravity	431	117	46	13	15	83	362	326	109	445	46	208	12
MERCED RIVER															
Total			413	3444	3175	2674	2743	3851	11,109	11,9	1466	1396	1224		48,100
Average cubic feet per second			121	58	55	44	49	63	327	36	46	42	36		1,390
Monthly use in percent of seasonal			7.4	3.6	3.6	2.8	2.9	4.1	11.4	12.3	15.0	14.0	12.9		7.2

a Formerly listed as Maria De Angelis.

Includes an undetermined amount of water returned

TABLE B-6 (Cont.)
DIVERSIONS - TULE RIVER
October 1969 through September 1970

WATER USER	MILE AND BANK BELOW SUCCESS DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-Feet
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--SUCCESS DAM--	0.0														
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	0.35														
Campbell-Moreland Ditch	2.4 L	Gravity	1025	191	294	190	52	337	617	856	635	866	705	613	6581
--PORTER SLOUGH--	2.4 R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	a (2.4)														
--PIONEER SPILL--	a (3.7R)														
Porter Slough Ditch	a (4.5R)	Gravity	284	235	224	113		5	137	154	222	373	190	292	2229
--NEWCOMB AVENUE BRIDGE--	a (6.1)														
Vandalia Ditch	3.1 L	Gravity	77				18	134		86	377	369	196		1257
--SANTA FE RAILROAD BRIDGE--	5.1														
Poplar Ditch	5.8 L	Gravity	5340	3637	2494	3249	4053	5148	3207	2442	2280	1760	1646	434	35690
--MAIN STREET BRIDGE--	5.9														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0														
Hubbs-Miner Ditch	6.4 R	Gravity	87	36	99	91		96	311	210	328	217	424	283	2182
--STATE HIGHWAY 65 BRIDGE--	6.6														
--OLIVE AVENUE BRIDGE--	9.9														
--FRIANT-KERN CANAL CROSSING--	10.5														
Woods-Central Ditch	11.0 L	Gravity	5383	4465	4280	3396	5196	4440			7604	7580	1040		43386
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8														
--OTTLE BRIDGE--	14.4														
<u>TULE RIVER</u>															
Total			12196	8564	7391	7039	9321	10160	4272	3748	11446	11165	4201	1822	91325
Average cubic feet per second			196	144	120	114	168	165	72	61	192	182	68	31	126
Monthly use in percent of seasonal			13.4	9.4	8.1	7.7	10.2	11.1	4.7	4.1	12.5	12.2	4.6	2.0	

Records furnished by the Tule River Association. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE 6-7
DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1969 through September 1970

WATER USER	DIVERSION													ACREAGE IRRIGATED	
	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE
<u>Friant-Kern Canal</u>															
San Joaquin River ^a															
Total acre-feet diverted	59255	50527	38674	31603	133835	68335	94163	96333	58229	189068	207974	81645	1209841	Not Available	
Average cubic feet per second	964	849	629	514	2410	1111	1583	1567	2659	3075	3382	1375	1671		
Monthly use in percent of seasonal	4.9	4.2	3.2	2.6	11.0	5.6	7.8	8.0	13.1	15.6	17.2	6.8			
<u>Madera Canal</u>															
Total acre-feet diverted	20506	5885	3011	6708	30032	16635	37912	41086	54762	56624	24134	891	298387	Not Available	
Average cubic feet per second	333	99	49	112	541	271	637	668	920	921	391	15	412		
Monthly use in percent of seasonal	6.9	2.0	1.0	2.3	10.0	5.6	12.7	13.8	18.3	19.0	8.1	0.3			
<u>Merced Irrigation District</u>															
Merced River															
Main Canal	28455	7393	3545	1154	795	16761	84098	86223	92572	105459	97293	67502	b 591250		
Northside Canal	1942	99	46	20	0	413	2795	3713	3826	4481	3907	3328	24572		
Total acre-feet diverted	30397	7492	3593	1174	795	17174	86893	89936	96398	109940	101200	70830	615822	c 104654	5729
Average cubic feet per second	494	126	58	19	14	279	1460	1463	1620	1788	1646	1190	851		
Monthly use in percent of seasonal	4.9	1.2	0.6	0.2	0.1	2.8	14.1	14.6	15.7	17.9	16.4	11.5			
<u>Turlock Irrigation District</u>															
Tuolumne River															
Total acre-feet diverted	17020	258	36600	3310	288	33960	98930	82040	96050	92890	104500	52630	d 618468	e 172589	
Average cubic feet per second	277	4	595	54	5	552	1663	1334	1614	1511	1699	884	854		
Monthly use in percent of seasonal	2.8	0	5.9	0.5	0.1	5.5	16.0	13.3	15.5	15.0	16.9	8.5			
<u>Modesto Irrigation District</u>															
Total acre-feet diverted	10205	548	24	42	2	38006	49640	49119	57439	42146	43409	35936	f 326516	g 62004	538
Average cubic feet per second	166	9	0	1	0	618	834	799	965	685	706	604	451		
Monthly use in percent of seasonal	3.1	0.2	0	0	0	11.6	15.2	15.1	17.6	12.9	13.3	11.0			
<u>Waterford Irrigation District</u>															
Total acre-feet diverted	2091	0	0	0	0	2144	7350	7461	7571	7534	6441	5164	h 45756	i 7308	
Average cubic feet per second	34	0	0	0	0	35	124	121	127	123	105	87	63		
Monthly use in percent of seasonal	4.6	0	0	0	0	4.7	16.0	16.3	16.5	16.5	14.1	11.3			
<u>Oakdale Irrigation District</u>															
Stanislaus River															
Northside Canal	7906	0	0	0	0	2959	19408	21917	22209	19913	19525	14188	128025	j 20085	36%
Southside Canal	11589	0	0	0	0	5821	28139	31694	31146	29436	28431	22430	189686	k 35013	50%
Total acre-feet diverted	19495	0	0	0	0	8780	47547	53611	53355	49349	47956	36618	316711	l 55098	4204
Average cubic feet per second	317	0	0	0	0	143	799	892	897	803	780	615	437		
Monthly use in percent of seasonal	6.2	0	0	0	0	2.8	15.0	16.9	16.8	15.6	15.1	11.6			
<u>South San Joaquin Irrigation District</u>															
Total acre-feet diverted	6326	0	0	0	0	7116	46286	49181	47019	47957	48939	26069	278893	m 64540	253
Average cubic feet per second	103	0	0	0	0	116	778	800	790	780	796	438	385		
Monthly use in percent of seasonal	2.3	0	0	0	0	2.6	16.6	17.6	16.9	17.2	17.5	9.3			

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.

b An additional 99,209 acre-feet of water was pumped from wells.

c Of this acreage, 3,916 were double cropped. Does not include an undetermined amount of riparian water users acreage.

d An additional 187,960 acre-feet of water was pumped from wells.

e Of this acreage, 28,759 were double cropped.

f An additional 59,419 acre-feet of water was pumped from wells.

g Of this acreage, 9,581 were double cropped.

h An additional 640 acre-feet of water was pumped from wells.

i Of this acreage, 109 were double cropped.

j Of this acreage, 353 were double cropped.

k Of this acreage, 436 were double cropped.

m This acreage also received 49,129 acre-feet of water from wells and controlled drainage.

n This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 1,207 were double cropped.

TABLE B-8
DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1969 through September 1970

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Delta-Mendota Canal															
Plain View Water District	4.22	20.96	539	59	0	0	284	1192	2752	3876	3379	3879	3545	2055	21560
Asbury Contractors, Incorporated	7.67		9	3	0	0	0	0	0	0	0	0	0	0	12
Westside Irrigation District	14.79		0	0	0	0	0	209	23	407	420	992	852	0	2903
Hospital Water District	18.05	30.96	664	213	0	5	214	1651	4251	4421	3580	5094	3688	2006	25787
Banta-Carboma Irrigation District	20.42		0	0	0	0	0	0	573	1790	243	2644	113	0	5363
Gordon H. Ball, Incorporated	22.50		0	1	0	0	1	1	6	8	5	10	6	7	45
Kern Canon Water District	31.31	35.18	98	111	0	2	2	262	1446	1554	1783	1792	1463	700	9213
West Stanislaus Irrigation District	31.31	38.14	0	0	0	1	1	0	5088	1952	3257	11058	5236	0	26593
Del Puerto Water District	35.73	42.51	237	0	0	0	134	806	2555	1946	2212	2566	1785	1241	13482
Salado Water District	42.10	46.83	22	0	0	1	145	982	2078	1297	1552	2124	1487	173	9861
Patterson Water District	42.51		186	4	0	0	88	809	752	541	962	1118	1179	386	6025
Sunflower Water District	44.22	52.02	167	0	0	1	5	924	3550	2341	2951	3568	2509	1066	17082
Lee White Paving Company			0	0	0	0	0	0	0	0	0	3	2	0	5
Orestimba Water District	46.83	51.41	67	0	0	1	131	492	3820	2643	2440	3781	2285	323	15983
Foothill Water District	51.65	57.46	278	0	0	0	3	541	1687	1556	1839	2321	1873	732	10830
Davis Water District	53.64	56.82	193	0	0	0	0	419	482	762	1009	1034	691	562	5152
Mustang Water District	56.80	62.67	1	50	0	0	74	419	1344	1499	1967	2280	2195	1195	11024
Central California Irrigation District	58.26	76.06	72	16	0	0	10	2049	10815	11768	11552	12546	10717	6542	66087
Quinto Water District	64.32	67.55	35	0	0	0	0	320	1455	1765	1529	1876	1703	715	9398
Romero Water District	66.70	68.03	27	0	0	0	0	93	393	515	681	754	721	594	3778
San Luis Water District, Municipal and Industrial	69.21		9	2	0	0	2	12	17	32	21	23	38	57	213
San Luis Water District	69.21	90.53	1547	769	0	1001	3282	6831	10058	11186	10648	12372	9387	4066	71147
Grasslands	70.00		9761	1595	0	0	0	0	0	0	0	0	0	4406	15764
San Hamburg Farms	90.53		3	2	0	0	0	0	1	3	3	3	3	3	21
Panoche Water District	93.25	96.70	3308	4342	0	1058	3458	6318	8066	9214	9901	10347	8186	4643	68841
Eagle Field Water District	93.27	94.57	332	0	0	47	221	262	299	539	507	571	460	119	3357
Oro Loma Water District	95.50	96.62	42	0	0	0	0	0	556	989	871	1018	886	211	4573
West Side Golf Club, Incorporated	95.95		8	5	4	3	2	2	9	14	17	23	21	17	125
Mercy Springs Water District	97.70	99.81	173	265	0	0	0	0	690	1180	1098	1235	1329	187	6159
Panoche Water District, Municipal and Industrial	100.84		1	1	1	1	1	1	1	1	1	1	1	1	12
Widren Water District	102.03		27	4	0	0	67	70	102	347	267	298	257	13	1452
Broadview Water District	102.95		1264	1436	217	261	1414	852	1534	2866	3216	2652	1319	575	17606
Firebaugh Canal Company	109.45		0	0	0	0	0	0	2287	7952	7644	8182	8213	730	35008
Total			19070	8878	222	2382	9539	25517	66690	74964	75555	96165	72150	33329	484461
Net Deliveries DMC to Mendota Pool	115.62		65103	31886	674	0	20281	69176	200680	117237	241412	164711	153638	96670	961468
Net Deliveries DMC to O'Neill Forebay	69.30		18081	17650	0	9126	55646	19391	57111	35410	41001	15776	0	6939	250649
Madera Canal															
Madera Irrigation District	6.10	32.2	12901	6440	3245	2751	9225	11598	22898	23917	33287	33688	2410	0	162360
Adobe Ranch	20.6		0	133	61	61	45	0	0	0	0	0	56	89	445
Chowchilla Water District	35.9		9804	0	0	3297	20910	4663	14472	16215	18825	19984	22610	1539	132319
Total			22705	6573	3306	6109	30180	16261	37370	40132	52112	53672	25076	1628	295124
Millerton Lake															
Fresno County Water District #18			7	3	3	3	2	5	9	18	19	27	24	14	134
County of Madera			1	1	1	1	1	1	1	0	2	1	2	1	13
Total			8	4	4	4	3	6	10	18	21	28	26	15	147

TABLE B-8 (Cont.)
DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1969 through September 1970

WATER USER	MILE POST FROM CANAL HEAD FROM TO	MONTHLY DELIVERIES IN ACRE- FEET												TOTAL
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
		Front-Kern Canal												
Garfield Water District	7.53	152	132	144	78	25		464	553	420	638	461	55	4434
Dog Creek Water District	14.8									0	0			
International Water District	14.9	18	25					72	161	161	287	269	158	1241
Academy Water District	17.63	1								0				1
Round Mountain Water District	20.85 21.33	7	1	4					3		0			12
Round Mountain Ranch	20.22	0							0	0	9	0		9
Trimmer Springs Water District	27.56	8	38								0			46
Consolidated Irrigation District	28.50			3		1558		0	0	0	0			1558
Least Chance Water Ditch Company	28.50	0	0	0	0	0				0	0			0
Laguna Irrigation District	28.50	0	0	0	0	6500		0	0	0	0	0		6500
Corcoran Irrigation District	28.50	0	0	0	0	0		3		0	0			3
Stratford Irrigation District	28.50	0	0	0	0	0	0		0	0	0	0		0
Tulare Lake Basin Water Storage District	28.50 & 95.64	0				0	0		0					0
Alta Irrigation District	28.50	0				0		0	0	0	0			0
City of Fresno	25.51	2152	2975	1300	2118	1455	0		0	0	650	700		7300
Fresno Irrigation District	25.51 & 28.50	6435	12355	1378	3065	2978			10951	11885	1856	20666	53	136326
Murphy Slough Association	28.50	0	0	0	0	6887		0	0	0	0	0		6887
Cohn Central Consolidated R.D. #76	28.50	0				1600	0		0	0	0			1600
Empire Westside Irrigation District	28.50	0				0	0	0	0					0
Kings River Water Association	28.50	0	0	0	0	0	0	0	0	0	0	0		0
Kings County Water District	28.50 71.29	0	0	0	0	0	0	0	0	0	0	0		0
Hills Valley Irrigation District	41.12	20	97	0	0	0	0	0	0	0	0	0		117
Orange Cove Irrigation District	35.87 53.31	2585	817	300	0	52	2874	4199	5187	6508	6490	4733		33745
City of Orange Cove	43.44	24	12	0		0	9	26	43	50	59	57	42	322
Stone Corral Irrigation District	56.90 64.40	422	93	157	0	15	151	1004	863	1172	1686	1835	1035	8433
Ivanhoe Irrigation District	65.04 68.13	1630	345			0	0	173	704	1238	2190	2886	2450	11616
Tulare Irrigation District	68.14 71.24	1527	10719	920	6478	23322	2188	0	0	12282	22729	30875	0	119240
Lakeside Irrigation Water District	69.42	0	0	0	0	0	0	0	0	0	0	0		0
Kaweah-Delta Water Conservation District	69.08 71.29	0				0	0	0	0	0	0	0		0
Exeter Irrigation District	72.52 79.24	1864	547	663	189	155	120	1649	2541	2915	2973	3167	2338	19121
Lewis Creek Water District	81.54	53	24	24	0	0	6	137	197	199	255	194	161	1250
Lindsay-Strathmore Irrigation District	85.56	2407	638	856	106	0	144	2445	3676	4389	5079	5123	4348	29211
Lindmore Irrigation District	86.17 91.12	2958	925	0	80	706	1802	4304	5365	7932	8696	8322	5961	46243
Porterville Irrigation District	93.93 98.62	1218	597	0	120	581	2045	3371	2662	3386	4439	3959	2779	25123
Lower Tule Irrigation District	95.67 98.62	5764	7256	9067	5433	8557	1864	13686	10209	23481	20716	34737	17250	166990
Tea Pot Dome	99.35	512	123	119	1	0	22	444	639	814	926	914	752	5266
Seacelt Irrigation District	98.62 107.37	2292	979	934	1097	2097	2913	4085	3440	5569	5945	4933	3121	37405
Cloer Community Service District	101.60				0	5								5
Terra Bella Irrigation District	102.65	1572	342	259			25	1637	2371	3141	3741	3464	2775	19340
Pixley Irrigation District	102.69	3529	875	67	474	1412	0							6357
Delano-Earlmarl Irrigation District	109.48 118.45	5989	4157	2364	2535	9544	16119	17488	15455	26451	24488	18549	10597	152677
Alpaugh Irrigation District	112.96	184	0	0	0	778		0	0	0	0	0		962
Southern San Joaquin Municipal Utility District	117.44 127.97	433	1694	143	2668	5827	1406	16152	13877	27795	21927	23367	9331	132104
Rag Gulch Water District	117.96	688	68	373	495	64								2238
Kern County Water Agency	130.03	0							0					0
Shafter-Masco Irrigation District	134.42 137.17	1892	193	924	1176	599	5797	551	533	9995	17751	9526	4762	56679
Dico Incorporated	150.63	10	3	2	1			1		14	4	8		43
Pacific Gas & Electric Company	150.83		0											0
Rosedale Rio Bravo Water Storage District	151.0													0
Buena Vista Water Storage District	151.80					950								950
Arvin-Edison Water Storage District	151.80	8368	3261	6792	5591	12460	18875	2363	14871	17723	15826	14259	7118	145307
Total		57813	51191	36282	63165	13275	7410	95511	9751	158273	184352	198811	79669	11145647

Data furnished by the U. S. Bureau of Reclamation. Acre-foot values are published as received and not rounded to the criteria used by the Department of Water Resources. Deliveries include operational spill, but do not include wasteway spill.

a Includes 482 acre-foot delivered to Westlands Water District under separate agreement.

b Net delivery of 7,650 acre-foot results from water being taken from O'Neill Forebay to Delta-Mendota Canal for delivery downstream.

c Includes water transported from Wutchuma.

d Does not include a wasteway spill of 16 acre-foot to Kings River.

TABLE E-9
DELIVERIES FROM CALIFORNIA AQUEDUCT^a
October 1969 through September 1970

WATER USER	MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
					<u>North San Joaquin Division</u>								
South Bay Aqueduct	9831	8175	9209	10475	4892	5029	12104	13818	12143	11322	11185	7630	115813
Oak Flat Water District	9	7	109	67	22	484	934	828	884	1216	838	555	5953
Total	9840	8182	9318	10542	4914	5513	13038	14646	13027	12538	12023	8185	121766
					<u>O'Neill Forebay</u>								
San Luis Water District Total	51	29	7	18	148	597	536	675	977	893	652	308	4891
					<u>San Luis Division</u>								
San Luis Water District	68	632	2165	1330	0	130	675	504	1221	1768	663	2	9158
Panoche Water District	771	663	1833	1708	2399	2635	2198	2031	2208	3224	2794	951	23415
Westlands Water District	15973	17034	19663	23082	26672	25236	44221	45978	59614	65712	55438	25687	424310
City of Huron	38	30	30	34	24	35	40	48	52	77	64	52	524
Total	16850	18359	23691	26154	29095	28036	47134	48561	63095	70781	58959	26692	457407
					<u>South San Joaquin Division</u>								
Kings County	0	0	0	0	0	0	0	0	0	0	0	0	0
Empire West Side Irrigation District	0	0	0	0	0	0	0	0	0	560	1015	1184	2759
Tulare Lake Basin Water Storage District	0	0	0	0	0	0	0	0	0	0	0	0	0
Hacienda Water District	0	98	0	66	573	263	211	644	886	1520	1578	1176	7015
Dudley Ridge Water District	873	976	2024	3683	2947	2091	2515	4351	6426	6924	5947	1731	40488
Kern County Water Agency	3937	2393	2983	3336	4748	6855	10650	13645	20828	28190	22759	9448	129772
Total	4810	3467	5007	7085	8268	9209	13376	18640	28140	37194	31299	13539	180034
					<u>Coastal Branch</u>								
Devils Den Water District	0	54	1383	1551	1421	726	463	488	1341	1569	1703	440	11139
Kern County Water Agency	1195	962	1466	2059	2607	5876	6399	7108	10693	12257	13445	8056	72123
Total	1195	1016	2849	3610	4028	6602	6862	7596	12034	13826	15148	8496	83262
Delta Pumping Plant to California Aqueduct	16770	37338	44783	40283	21385	26819	52365	17426	33931	34953	51312	38507	415872

a Does not include operational losses or change in storage.

TABLE B-10
IMPORTS AND EXPORTS
October 1969 through September 1970

WATER USER	IN ACRE - FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	
						<u>Imports from Delta</u>							
California Aqueduct (a)	5940	28550	35970	29220	15990	21420	38390	3133	20700	22540	39230	29570	290700
Delta-Mendota Canal	100220	21780	0	25340	82220	108050	216620	219000	251680	273440	218820	135780	1652950
Total Import from Delta	106200	50330	35970	54560	98210	129500	255000	222100	272400	296000	258000	165400	1944000
						<u>Exports from Tuolumne River</u>							
City and County of San Francisco (b)	21693	18192	20879	11526	0	6196	19035	24128	20763	21433	21626	20874	206345

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco; acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

(a) Water delivered to San Luis Division including deliveries to Oak Flat Water District.
(b) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-II

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

DATA NOT AVAILABLE AT TIME OF PUBLICATION

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B. & N.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO	
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00 USC&S

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.95	1.66	1.69	1.72	3.35	2.17	2.02	1.88	2.10	2.09	2.07	1.98	1
2	1.95	1.65	1.69	1.73	3.35	2.36	2.02	1.87	2.10	2.08	2.07	1.98	2
3	1.87	1.65	1.69	1.74	4.14	1.94	1.87	1.87	2.09	2.08	2.07	2.00	3
4	1.76	1.64	1.69	1.74	5.14	2.02	1.86	1.88	2.08	2.08	2.07	2.09	4
5	1.76	1.63	1.70	1.74	5.33	2.28	1.86	1.93	2.08	2.07	2.07	2.04	5
6	1.76	1.65	1.71	1.74	5.32	2.06	1.86	2.07	2.08	2.06	2.06	2.00	6
7	1.76	1.65	1.71	1.75	5.32	2.00	1.87	2.07	2.08	2.06	2.06	1.99	7
8	1.75	1.65	1.72	1.75	5.32	1.97	1.87	2.07	2.06	2.06	2.06	2.00	8
9	1.76	1.65	1.72	1.76	5.16	1.94	1.87	2.07	2.04	2.10	2.06	2.00	9
10	1.76	1.64	1.72	1.77	4.23	1.92	1.87	2.07	2.04	2.14	2.05	2.00	10
11	1.76	1.65	1.73	1.78	2.66	1.89	1.87	2.08	2.04	2.14	2.05	1.99	11
12	1.76	1.65	1.73	1.78	1.73	1.87	1.88	2.08	2.05	2.18	2.09	2.00	12
13	1.75	1.65	1.73	1.77	1.72	1.86	1.89	2.08	2.04	2.21	2.14	2.00	13
14	1.75	1.65	1.74	1.85	1.73	1.85	1.89	2.08	2.05	2.23	2.14	2.00	14
15	1.76	1.65	1.75	1.82	1.72	1.84	1.90	2.08	2.05	2.27	2.14	2.00	15
16	1.76	1.65	1.75	2.49	1.71	1.87	1.89	2.08	2.02	2.27	2.13	2.00	16
17	1.76	1.65	1.71	2.00	1.79	1.82	1.90	2.08	1.99	2.27	2.10	1.96	17
18	1.77	1.65	1.72	1.91	1.77	1.81	1.90	2.08	2.00	2.27	2.08	1.92	18
19	1.77	1.66	1.76	1.84	1.74	1.79	1.90	2.08	2.00	2.27	2.08	1.92	19
20	1.72	1.66	1.75	1.83	1.73	1.78	1.90	2.09	2.03	2.26	2.07	1.92	20
21	1.63	1.66	1.76	1.81	1.71	1.78	1.90	2.10	2.00	2.26	2.07	1.92	21
22	1.62	1.66	1.75	1.88	1.70	1.78	1.90	2.10	1.99	2.24	2.06	1.92	22
23	1.62	1.66	1.74	2.96	1.64	1.77	1.90	2.10	1.99	2.19	2.06	1.93	23
24	1.63	1.66	1.73	3.94	1.64	1.77	1.90	2.10	2.00	2.19	2.03	1.93	24
25	1.64	1.65	1.77	4.18	1.64	1.77	1.90	2.10	2.05	2.19	1.99	1.94	25
26	1.65	1.64	1.75	3.93	1.64	1.77	1.90	2.10	2.10	2.18	1.99	1.94	26
27	1.65	1.65	1.74	3.37	1.65	2.02	1.91	2.10	2.08	2.16	1.99	1.95	27
28	1.65	1.66	1.74	3.36	1.70	2.41	1.91	2.10	2.08	2.15	1.98	1.95	28
29	1.65	1.67	1.75	3.35		2.54	1.89	2.11	2.08	2.14	1.98	1.92	29
30	1.66	1.67	1.73	3.35		2.44	1.88	2.10	2.09	2.14	1.98	1.89	30
31	1.65		1.72	3.35		2.23		2.10		2.11	1.98		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
2-4-70	1100	5.34									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
36 59 04	119 43 24	SW 7 11S 21E	77200	23.8	12-11-37	OCT 07-DATE		1938		USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	64.55	63.71	65.08	64.06	68.88	64.00	63.34	64.02	63.09	62.64	62.50	62.55	1
2	64.63	63.66	64.92	64.04	68.35	65.27	63.25	63.98	63.08	62.56	62.48	62.54	2
3	64.66	63.65	64.83	64.03	68.04	67.89	63.24	63.92	62.99	62.47	62.46	62.57	3
4	64.66	63.64	64.81	64.13	67.26	69.39	63.23	63.84	62.92	62.60	62.46	62.55	4
5	64.57	63.63	64.78	64.22	66.52	68.83	63.17	63.52	62.86	62.77	62.55	62.61	5
6	64.44	63.78	64.73	64.25	66.26	69.60	63.15	63.37	62.84	62.75	62.54	62.80	6
7	64.42	64.73	64.67	64.27	66.25	69.94	63.16	63.20	62.82	62.75	62.53	62.72	7
8	64.49	64.89	64.58	64.26	67.03	68.78	63.18	63.08	62.79	62.54	62.54	62.74	8
9	64.58	64.78	64.44	64.26	68.08	67.78	63.29	63.08	62.81	62.44	62.55	62.95	9
10	64.65	64.63	64.33	64.24	67.94	67.30	63.34	63.16	62.77	62.42	62.49	63.19	10
11	64.68	64.54	64.30	64.35	67.86	66.86	63.26	63.50	62.68	62.44	62.48	63.11	11
12	64.61	64.53	64.25	65.12	67.91	66.36	63.20	63.53	62.69	62.47	62.48	62.80	12
13	64.52	64.66	64.24	65.13	67.55	65.94	63.18	63.50	62.72	62.36	62.52	62.64	13
14	64.42	64.68	64.22	65.02	66.79	65.48	63.21	63.45	62.86	62.33	62.56	62.60	14
15	64.43	64.68	64.18	65.51	66.34	65.06	63.48	63.42	62.82	62.37	62.64	62.62	15
16	64.86	64.60	64.13	67.04	66.52	64.79	63.82	63.41	62.80	62.32	62.62	62.68	16
17	65.50	64.55	64.09	68.94	66.35	64.36	63.82	63.38	62.90	62.32	62.62	62.94	17
18	65.36	64.58	64.07	71.78	66.37	64.19	63.82	63.41	62.76	62.40	62.73	62.96	18
19	64.68	64.70	64.04	71.85	66.70	63.89	63.78	63.41	62.67	62.48	62.75	62.93	19
20	64.07	64.79	64.01	71.15	66.46	63.72	63.81	63.35	62.75	62.66	62.59	62.88	20
21	63.87	64.71	64.03	70.90	66.45	63.78	63.78	63.20	62.70	62.66	62.46	62.89	21
22	63.80	64.70	64.09	70.52	65.59	64.73	63.72	63.04	62.65	62.47	62.48	62.76	22
23	63.75	64.73	64.08	69.94	65.28	64.80	63.65	62.96	62.68	62.47	62.42	62.75	23
24	63.75	64.77	64.04	69.88	64.85	64.63	63.55	62.98	62.68	62.48	62.40	62.69	24
25	63.74	64.87	64.10	69.93	64.58	63.86	63.49	62.98	62.69	62.57	62.44	62.75	25
26	63.69	64.90	64.17	69.97	64.24	63.81	63.62	62.91	62.66	62.57	62.51	62.86	26
27	63.74	64.89	64.22	69.83	63.90	63.63	63.78	63.06	62.66	62.47	62.52	62.86	27
28	63.86	64.88	64.39	69.47	63.76	63.55	64.04	63.06	62.67	62.48	62.53	62.92	28
29	63.83	64.87	64.27	69.20		63.46	64.03	63.11	62.67	62.46	62.54	62.99	29
30	63.82	65.06	64.15	69.27		63.42	64.04	63.11	62.67	62.43	62.56	62.94	30
31	63.79		64.08	69.22		63.40		63.07		62.46	62.58		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-18-70	2300	72.16									
3-7-70	0400	70.21									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DAT	MAY 61-SEP 61	1961		USCGS
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flow regulated by upstream reservoirs and diversions.										

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56.75	55.71	57.48	56.00	62.42	57.07	56.73	56.97	55.84	55.59	55.41	55.61	1
2	56.74	55.63	57.32	55.97	61.96	57.73	56.65	56.90	55.83	55.38	55.37	55.70	2
3	56.79	55.69	57.18	55.92	61.47	59.91	56.53	56.86	55.66	55.45	55.48	55.78	3
4	56.71	55.71	57.18	55.95	60.81	62.28	56.54	56.78	55.52	55.58	55.53	55.73	4
5	56.60	55.73	57.12	56.08	59.83	62.44	56.60	56.65	55.59	55.88	55.53	55.69	5
6	56.54	55.83	57.05	56.12	59.36	62.72	56.56	56.47	55.55	55.94	55.39	55.68	6
7	56.46	56.42	56.97	56.15	59.21	63.27	56.54	56.24	55.58	55.82	55.30	55.70	7
8	56.38	57.13	56.91	56.15	59.79	62.97	56.56	56.25	55.66	55.53	55.42	55.57	8
9	56.44	57.18	56.80	56.21	60.95	62.17	56.57	56.27	55.66	55.33	55.65	55.55	9
10	56.45	56.96	56.67	56.24	61.33	61.36	56.51	56.35	55.92	55.22	55.69	55.66	10
11	56.52	56.76	56.63	56.34	61.12	60.68	56.51	56.61	55.84	55.34	55.72	55.72	11
12	56.54	56.68	56.55	57.06	61.18	59.89	56.56	56.71	55.82	55.41	55.75	55.62	12
13	56.59	56.82	56.44	57.69	60.85	59.39	56.56	56.61	55.76	55.36	55.62	55.57	13
14	56.55	56.95	56.41	57.76	60.09	58.89	56.59	56.54	55.78	55.34	55.50	55.57	14
15	56.51	56.98	56.39	58.03	59.43	58.39	56.70	56.47	55.82	55.27	55.65	55.61	15
16	56.66E	56.93	56.29	59.44	59.36	58.14	56.85	56.37	55.82	55.20	55.67	55.50	16
17	55.75E	56.79	56.22	60.86	59.41	57.79	56.87	56.29	55.76	55.07	55.67	55.45	17
18	56.91E	56.79	56.19	63.17	59.16	57.57	56.72	56.26	55.63	55.14	55.83	55.64	18
19	57.10E	56.85	56.17	64.27	59.71	57.31	56.61	56.25	55.53	55.26	55.72	55.66	19
20	56.84E	57.00	56.16	64.35	59.73	57.08	56.59	56.20	55.65	55.45	55.52	55.59	20
21	56.55E	56.99	56.15	64.16	59.31	56.98	56.60	56.17	55.62	55.47	55.42	55.72	21
22	56.30E	56.96	56.22	63.98	58.84	57.38	56.60	56.02	55.71	55.50	55.62	55.77	22
23	56.11E	56.98	56.30	63.62	58.53	57.73	56.55	55.95	55.75	55.29	55.77	55.65	23
24	55.96E	57.01	56.31	63.35	58.16	57.60	56.46	55.79	55.63	55.21	55.76	55.69	24
25	55.88E	57.08	56.28	63.26	57.89	57.05	56.48	55.82	55.40	55.30	55.64	55.58	25
26	55.84E	57.18	56.35	63.27	57.62	56.78	56.56	55.71	55.24	55.31	55.55	55.58	26
27	55.84	57.20	56.37	63.20	57.26	56.70	56.67	55.77	55.25	55.26	55.51	55.60	27
28	55.83	57.19	56.54	63.00	57.00	56.59	56.90	55.75	55.45	55.26	55.43	55.45	28
29	55.86	57.20	56.45	62.69	56.64	57.02	55.83	55.48	55.38	55.38	55.47	55.52	29
30	55.83	57.25	56.26	62.58	56.62	57.00	55.86	55.56	55.29	55.29	55.49	55.69	30
31	55.81		56.13	62.60	56.76		55.79			55.38	55.43		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.
1-19-70	2000	64.41									
3- 7-70	1300	63.33									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAUGE HT.	DATE			FROM	TO		
37 18 35	120 55 45		8260b	68.02	2-27-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

a The maximum gage height of 68.05 does not represent the maximum discharge, which occurred at gage height 68.02 feet on 2-27-69.

b Maximum discharge of 8,260 cfs is only for San Joaquin River channel. During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.94	9.31	9.21	9.07	6.38	7.90	6.18	6.05	6.06	5.83	6.11	5.99	1
2	6.96	8.65	9.21	8.97	6.41	8.85	6.35	6.04	6.05	5.86	6.08	6.12	2
3	7.15	9.24	9.20	8.97	9.79	9.94	6.39	6.15	5.93	5.93	5.99	6.05	3
4	7.31	9.32	9.24	8.96	9.93	10.22	6.48	6.05	6.06	5.92	6.06	5.96	4
5	7.30	9.34	9.34	8.97	9.96	10.44	6.47	6.00	6.09	5.92	6.09	6.08	5
6	7.32	9.34	9.34	8.95	9.96	10.35	6.42	5.97	5.86	5.97	6.06	6.20	6
7	7.29	9.32	9.35	8.78	9.93	10.38	6.44	5.93	5.95	5.96	6.08	6.10	7
8	7.31	9.28	9.36	8.35	9.94	10.38	6.24	6.05	6.02	5.93	6.12	6.05	8
9	7.34	9.28	9.36	8.42	9.83	10.40	6.32	6.03	6.08	6.01	6.09	6.13	9
10	7.36	9.27	9.36	8.65	9.38	8.40	6.20	6.06	6.06	6.10	6.00	6.13	10
11	7.36	9.22	9.00	7.37	9.38	9.33	6.19	6.07	5.92	6.10	5.96	6.12	11
12	7.32	9.57	8.63	6.65	9.23	8.71	6.20	6.04	5.97	6.08	6.00	6.18	12
13	7.41	9.85	8.61	6.43	9.38	7.50	6.21	5.99	5.94	6.05	6.10	6.00	13
14	7.96	9.82	8.61	6.71	9.41	7.15	6.22	5.98	5.94	6.10	6.09	6.11	14
15	8.96	7.85	8.62	6.60	9.40	7.14	6.31	6.00	5.88	6.05	6.04	6.16	15
16	9.25	7.28	8.62	7.27	9.41	7.07	6.27	6.04	5.93	6.06	5.99	6.05	16
17	9.28	8.87	8.64	6.65	9.76	6.65	6.29	6.02	6.07	6.04	5.99	5.99	17
18	9.28	9.21	8.36	6.51	9.95	6.70	6.21	6.05	5.91	6.06	6.03	5.78	18
19	9.27	9.21	7.99	6.45	9.95	6.73	6.12	6.01	5.95	6.05	6.02	5.82	19
20	9.32	9.22	7.95	6.44	9.88	6.70	6.14	5.98	5.88	6.02	5.95	5.83	20
21	9.56	9.21	7.96	6.56	8.70	6.69	6.15	6.01	5.99	6.06	6.00	5.86	21
22	9.82	7.63	8.28	6.47	8.71	6.67	6.14	5.94	6.00	6.11	6.04	5.88	22
23	9.88	7.18	8.87	6.42	8.67	6.57	6.14	5.89	5.97	6.08	6.01	5.84	23
24	9.87	8.83	9.35	6.40	9.31	6.46	6.07	5.84	6.10	6.05	5.97	5.94	24
25	9.83	9.17	9.34	6.38	9.33	6.28	6.09	5.84	6.07	6.03	6.03	5.98	25
26	9.88	9.18	9.34	6.36	8.67	6.36	6.07	5.91	6.04	6.07	5.81	6.00	26
27	9.60	9.20	9.36	6.38	8.64	6.31	6.15	6.07	6.06	6.09	5.92	5.92	27
28	9.28	9.21	9.36	6.39	7.81	6.31	6.22	6.07	6.04	6.13	5.93	5.89	28
29	9.28	9.21	9.63	6.40	6.22	6.14	6.03	6.04	6.10	6.05	5.85	5.93	29
30	9.29	9.21	9.92	6.39	6.25	6.25	6.01	6.06	6.07	6.09	5.89	6.10	30
31	9.31		9.92	6.39	6.28	6.28		6.03		6.02	5.87		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-24-69	1520	10.20									
2- 3-70	0300	10.01									
3- 4-70	2130	10.94									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO	
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12 USGS

Station located 0.2 mile downstream from Merced-Snellings highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.25	14.37	16.99	15.30	11.78	13.07	11.50	11.25	11.12	10.63	10.51	10.53	1
2	11.21	14.02	16.99	14.67	11.75	14.08	11.43	11.25	11.10	10.56	10.53	10.51	2
3	11.16	14.19	17.01	14.64	13.35	15.44	11.55	11.28	11.09	10.51	10.55	10.55	3
4	11.39	15.63	16.99	14.63	15.39	15.63	11.62	11.28	11.03	10.49	10.51	10.59	4
5	11.56	15.82	17.27	14.63	15.47	16.96	11.69	11.26	11.00	10.49	10.54	10.62	5
6	11.62	15.92	17.46	14.63	15.54	16.25	11.70	11.21	11.07	10.47	10.55	10.61	6
7	11.70	15.80	17.50	14.63	15.51	16.17	11.53	11.15	11.03	10.51	10.24E	10.68	7
8	11.57	15.66	17.53	14.25	15.51	16.17	11.61	11.09	10.97	10.19E	10.30E	10.75	8
9	11.67	15.63	17.53	14.12	15.53	16.16	11.49	11.06	11.05	10.22E	10.27E	10.68	9
10	11.72	15.62	17.54	14.26	15.04	15.44	11.38	11.13	11.21	10.27E	10.30E	10.65	10
11	11.72	15.56	17.46	14.28	14.81	14.07	11.31	11.16	11.19	10.28E	10.62	10.78	11
12	11.74	15.60	15.94	12.96	14.81	14.76	11.31	11.13	10.96	10.31E	10.52	10.78	12
13	11.76	16.41	15.64	12.68	14.66	13.29	11.36	11.12	10.77	10.28E	10.50	10.84	13
14	11.92	16.43	15.61	12.31	14.99	12.67	11.37	11.04	10.70	10.27E	10.48	10.83	14
15	12.92	15.54	15.64	13.24	14.96	12.51	11.37	11.06	10.64	10.25E	10.55	10.82	15
16	14.40	14.53	15.61	13.51	14.88	12.46	11.46	11.11	10.60	10.24E	10.56	10.84	16
17	14.31	16.01	15.62	13.62	15.39	12.28	11.45	11.12	10.55	10.28E	10.59	10.83	17
18	14.31	16.12	15.61	12.40	15.72	12.05	11.41	11.17	10.68	10.26E	10.49	10.77	18
19	14.30	15.60	14.83	12.30	15.62	12.03	11.39	11.13	10.73	10.25E	10.44	10.67	19
20	14.32	15.02	14.60	12.21	15.60	12.02	11.32	11.11	10.60	10.24E	10.51	10.62	20
21	14.37	14.74	14.55	12.46	14.77	11.97	11.31	11.07	10.63	10.49	10.49	10.59	21
22	15.06	14.29	14.60	13.08	14.00	11.97	11.27	11.00	10.80	10.52	10.43	10.60	22
23	15.15	14.45	15.10	12.22	13.98	11.92	11.24	11.03	10.69	10.53	10.45	10.67	23
24	15.24	14.68	15.04	12.04	14.04	11.82	11.26	11.00	10.63	10.53	10.50	10.71	24
25	15.13	16.93	15.15	11.95	15.30	11.62	11.25	11.00	10.62	10.51	10.49	10.63	25
26	15.15	16.87	15.17	11.89	14.09	11.60	11.25	10.94	10.61	10.49	10.43	10.64	26
27	15.16	16.84	15.18	11.85	13.91	11.61	11.33	10.93	10.60	10.55	10.44	10.67	27
28	14.37	16.89	15.16	11.94	13.52	11.57	11.32	10.99	10.64	10.57	10.46	10.69	28
29	14.26	16.95	15.19	11.77		11.56	11.35	11.08	10.68	10.49	10.51	10.68	29
30	14.23	17.02	15.65	11.82		11.51	11.37	11.04	10.63	10.47	10.47	10.69	30
31	14.34		15.64	11.80		11.46		11.09		10.51	10.52		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
3-5-70	0930	17.75									

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41		1950 1962	1962 1962	USCGS USCGS
Station located 150 feet downstream from McGwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions.											
a Reflects present datum.											

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	50.73	52.65	53.05	53.27	55.18	51.86	49.74	49.92	48.67	48.27E	47.92	48.22	1
2	50.65	52.60	53.03	52.71	54.79	51.93	49.68	49.82	48.59	48.20E	48.05	48.28	2
3	50.74	52.22	53.02	52.08	54.22	53.76	49.63	49.73	48.45	48.14E	48.18	48.45	3
4	50.74	52.21	52.96	51.96	54.73	56.22	49.70	49.74	48.25	48.23E	48.20	48.49	4
5	50.68	52.60	52.94	51.95	55.12	57.36	49.82	49.60	48.27	48.41E	48.16	48.46	5
6	50.72	52.79	52.97	51.94	54.94	58.10	49.89	49.41	48.19	48.53E	48.04	48.52	6
7	50.75	53.04	52.98	51.94	54.89	58.39	49.83	49.25	48.32	48.45E	48.03	48.54	7
8	50.66	53.30	52.96	51.89	55.03	58.53	49.72	49.22	48.51	48.22E	48.08	48.24	8
9	50.67	53.38	52.91	51.51	55.64	58.03	49.69	49.21	48.41	48.05E	48.19	48.33	9
10	50.79	53.32	52.87	51.52	56.21	57.31	49.63	49.30	48.67	47.98E	48.39	48.46	10
11	50.74	53.09	52.85	51.79	55.84	56.01	49.67	49.53	48.63	47.91E	48.32	48.46	11
12	50.73	52.94	52.68	52.01	55.68	54.92	49.61	49.46	48.57	47.97E	48.32	48.39	12
13	50.73	53.07	52.08	51.74	55.53	54.46	49.71	49.43	48.55	48.09	48.24	48.38	13
14	50.71	53.64	51.89	51.77	55.10	53.16	49.67	49.37	48.59	47.98	48.05	48.45	14
15	50.84	53.75	51.83	51.94	54.74	52.31	49.62	49.33	48.63	47.93	48.16	48.41	15
16	51.76	52.82	51.77	53.01	54.50	51.85	49.71	49.23	48.51	47.95	48.20	48.37	16
17	52.77	51.51	51.70	54.54	54.51	51.49	49.82	49.16	48.42E	47.89	48.25	48.34	17
18	53.05	51.81	51.66	55.74	54.82	51.13	49.76	49.10	48.34E	47.83	48.33	48.50	18
19	53.00	52.66	51.59	57.13	55.22	50.79	49.58	49.16	48.28E	47.89	48.30	48.38	19
20	52.81	52.82	51.23	58.20	55.31	50.58	49.60	49.08	48.23E	48.03	48.14	48.38	20
21	52.72	52.86	51.10	58.13	55.14	50.44	49.49	49.03	48.31E	47.92	48.04	48.40	21
22	52.76	52.84	51.08	57.92	54.08	50.59	49.45	48.90	48.33E	47.88	48.05	48.47	22
23	53.21	52.19	51.16	57.60	53.37	50.89	49.47	48.73	48.41E	47.87	48.25	48.38	23
24	53.39	51.29	51.64	56.88	53.06	50.76	49.44	48.63	48.48E	47.86	48.44	48.39	24
25	53.46	51.67	52.31	56.50	53.14	50.45	49.48	48.60	48.34E	47.90	48.21	48.36	25
26	53.42	52.58	52.54	56.37	53.57	50.09	49.62	48.57	48.20E	47.96	48.16	48.32	26
27	53.44	52.80	52.63	56.27	52.60	49.99	49.57	48.57	48.05E	47.99	48.13	48.40	27
28	53.33	52.88	52.69	56.05	52.25	49.82	49.57	48.47	48.14E	47.94	48.12	48.28	28
29	52.79	52.93	52.67	55.70	49.88	49.71	48.51	48.51	48.21E	47.91	48.01	48.26	29
30	52.68	52.95	52.72	55.33	49.87	49.87	48.57	48.57	48.20E	47.85	48.10	48.37	30
31	52.66		53.16	55.28	49.74		48.53			47.89	48.11		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-20-70	1900	58.30									
3-8-70	0300	58.59									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	33300a	65.90	2-26-69	APR 12-DATE		1912	1959	47.24	USCGS
										47.31	USCGS
										0.00	USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 square miles. This station equipped with DNR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (33,300 cfs) includes flow in Merced River Slough.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	807250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.60	43.08	43.29	43.47	45.48	42.94	40.65	40.75	39.77	39.51	38.92	39.26	1
2	41.49	43.03	43.31	43.26	45.20	43.06	40.58	40.75	39.78	39.42	39.05	39.24	2
3	41.55	42.87	43.31	42.60	44.72	43.70	40.48	40.66	39.61	39.22	39.30	39.41	3
4	41.56	42.60	43.26	42.42	44.71	45.68	40.50	40.63	39.39	39.27	39.25	39.40	4
5	41.50	42.98	43.24	42.38	45.31	47.36	40.60	40.56	39.31	39.45	39.19	39.38	5
6	41.48	43.16	43.26	42.35	45.21	48.16	40.72	40.35	39.23	39.62	39.16	39.58	6
7	41.51	43.35	43.27	42.35	45.14	48.51	40.68	40.18	39.29	39.40	39.09	39.56	7
8	41.38	43.57	43.26	42.34	45.19	48.80	40.60	40.22	39.45	39.16	39.20	39.28	8
9	41.40	43.67	43.22	42.10	45.57	48.60	40.60	40.16	39.42	39.03	39.26	39.27	9
10	41.43	43.68	43.18	41.95	46.18	47.97	40.54	40.20	39.49	38.91	39.40	39.35	10
11	41.38	43.50	43.15	42.13	46.16	47.01	40.52	40.36	39.57	38.91	39.29	39.40	11
12	41.35	43.34	43.09	42.38	45.91	46.46	40.50	40.31	39.57	39.13	39.29	39.41	12
13	41.40	43.32	42.62	42.20	45.83	45.07	40.61	40.33	39.56	39.19	39.28	39.41	13
14	41.40	43.78	42.35	42.22	45.50	44.11	40.64	40.25	39.58	39.05	39.12	39.48	14
15	41.48	43.98	42.27	42.27	45.14	43.27	40.57	40.22	39.72	39.10	39.18	39.54	15
16	42.09	43.62	42.22	43.32	44.86	42.77	40.62	40.20	39.59	38.99	39.32	39.49	16
17	43.02	42.36	42.16	44.50	44.81	42.41	40.69	40.17	39.45	38.97	39.40	39.36	17
18	43.37	42.08	42.13	45.54	44.96	42.02	40.67	40.09	39.36	38.90	39.38	39.48	18
19	43.39	42.88	42.09	46.47	45.37	41.76	40.51	40.07	39.31	38.92	39.33	39.46	19
20	43.27	43.10	41.80	47.79	45.53	41.43	40.50	40.03	39.31	39.13	39.13	39.44	20
21	43.22	43.18	41.64	48.26	45.45	41.38	40.50	40.03	39.33	39.04	39.15	39.53	21
22	43.18	43.16	41.59	48.28	44.80	41.30	40.41	39.90	39.30	38.97	39.07	39.48	22
23	43.49	42.88	41.60	48.04	43.93	41.69	40.36	39.68	39.34	38.95	39.27	39.33	23
24	43.69	42.00	41.90	47.38	43.60	41.56	40.35	39.64	39.33	38.96	39.51	39.32	24
25	43.78	41.91	42.45	46.97	43.46	41.32	40.35	39.62	39.16	38.99	39.27	39.28	25
26	43.77	42.74	42.78	46.64	43.95	40.99	40.50	39.57	39.15	39.12	39.19	39.32	26
27	43.76	43.03	42.92	46.52	43.28	40.93	40.61	39.60	39.23	39.21	39.10	39.37	27
28	43.75	43.14	43.00	46.36	42.88	40.72	40.58	39.64	39.33	39.08	39.16	39.28	28
29	43.38	43.19	43.00	46.05		40.68	40.60	39.65	39.40	38.96	39.13	39.23	29
30	43.17	43.22	42.97	45.70		40.78	40.72	39.59	39.37	38.92	39.26	39.27	30
31	43.10		43.28	45.53		40.69		39.64		38.87	39.29		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT
1-22-70	0030	48.38									
3- 8-70	1600	48.85									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65	1959	1959	0.00	USED
								1959		0.00	USGS
										3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs and diversions.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	34.94E	37.13	37.28	37.38	39.66	36.91	34.30	34.49	33.41	33.06	32.36	32.78	1
2	34.84E	37.08	37.33	37.33	39.43	37.17	34.27	34.46	33.43	32.98	32.51	32.78	2
3	34.89E	36.98	37.33	36.69	39.00	37.41	34.17	34.42	33.35	32.76	32.86	32.96	3
4	34.92E	36.67	37.28	36.40	38.75	39.02	34.03	34.36	33.02	32.90	32.81	33.05	4
5	34.87E	36.97	37.27	36.32	39.30	40.80	34.12	34.31	32.90	33.08	32.79	33.06	5
6	34.84E	37.20	37.27	36.29	39.30	41.77	34.31	34.13	32.85	33.26	32.84	33.31	6
7	34.89E	37.35	37.29	36.28	39.20	42.25	34.33	33.91	32.89	33.00	32.73	33.25	7
8	34.76E	37.53	37.29	36.27	39.19	42.56	34.25	33.94	33.05	32.74	32.69	32.95	8
9	34.79E	37.65	37.27	36.11	39.47	42.57	34.18	33.89	33.23	32.60	32.79	32.81	9
10	34.84E	37.69	37.22	35.90	40.06	42.13	34.10	33.97	33.13	32.45	32.99	32.97	10
11	34.79E	37.57	37.18	36.02	40.27	40.41	34.05	34.18	33.21	32.46	32.80	33.12	11
12	34.76E	37.41	37.15	36.28	40.01	39.99	34.12	34.23	33.18	32.68	32.79	33.15	12
13	34.84E	37.33	36.80	36.16	39.91	39.28	34.32	34.22	33.20	32.83	32.85	33.22	13
14	34.84E	37.67	36.43	36.15	39.66	38.47	34.40	34.07	33.18	32.61	32.76	33.31	14
15	34.92E	37.95	36.29	36.18	39.31	37.53	34.35	34.02	33.31	32.55	32.78	33.25	15
16	35.57E	37.82	36.22	36.94	39.00	36.94	34.29	33.95	33.06	32.39	33.01	33.22	16
17	36.57E	36.70	36.15	38.17	38.87	36.55	34.35	34.00	33.09	32.45	33.03	33.12	17
18	37.08E	36.14	36.10	39.30	38.93	36.15	34.20	33.88	32.99	32.43	32.78	33.27	18
19	37.10E	36.78	36.09	40.17	38.28	35.97	34.28	33.83	32.98	32.49	32.83	33.30	19
20	36.86E	37.10	35.91	41.45	39.49	35.76	34.17	33.79	32.96	32.65	32.81	33.30	20
21	36.82E	37.20	35.68	42.15	39.49	35.50	34.16	33.72	33.05	32.45	32.82	33.39	21
22	36.78E	37.20	35.63	42.33	39.08	35.37	34.05	33.62	33.02	32.36	32.74	33.42	22
23	37.12E	37.05	35.62	42.25	38.19	35.67	33.95	33.37	32.98	32.36	32.91	33.22	23
24	37.36E	36.22	35.81	41.81	37.75	35.60	34.03	33.30	33.02	32.33	33.35	33.14	24
25	37.56E	35.92	36.28	41.38	37.48	35.35	34.03	33.30	32.85	32.46	33.08	33.12	25
26	37.56E	36.62	36.66	41.04	37.85	34.97	34.28	33.27	32.78	32.60	32.96	33.17	26
27	37.56E	37.00	36.79	40.87	37.47	34.85	34.55	33.26	32.96	32.74	32.82	33.26	27
28	37.56E	37.14	36.88	40.73	36.94	34.65	34.48	33.30	33.08	32.46	32.83	33.26	28
29	37.50	37.20	36.92	40.48		34.54	34.45	33.29	33.15	32.39	32.87	33.17	29
30	37.26	37.23	36.90	40.13		34.63	34.58	33.26	33.06	32.32	33.06	33.24	30
31	37.16		37.14	39.82		34.42		33.30		32.31	32.98		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-22-70	1730	42.35									
3- 9-70	0100	42.65									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38			1938	1959	0.00	USED
				50.47a	6-13-38			1959		0.00	USCGS
			5460b	42.65	3- 9-70	OCT 69-DATE		1959		3.53	USED
Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-69.											
a Reflects present datum.											
b Maximum discharge since station was rated in October 1969.											

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	70.95	70.63	70.94	69.38	72.78	72.13	67.64	67.53	68.18	69.23	67.49	67.30	1
2	71.13	70.59	70.74	69.56	72.14	72.22	67.61	67.53	70.00	69.10	67.49	67.36	2
3	71.14	71.01	70.26	69.39	72.13	72.16	67.61	67.53	70.21	68.18	67.49	67.36	3
4	71.11	70.90	69.99	69.38	72.13	72.13	67.60	67.98	70.03	67.53	67.49	67.32	4
5	71.08	71.17	69.55	70.51	72.13	72.12	67.60	69.34	69.05	67.52	67.49	67.29	5
6	71.16	71.01	69.41	70.39	72.13	72.45	67.60	68.78	67.57	67.51	67.49	67.28	6
7	69.95	70.82	69.41	70.44	72.13	72.76	67.58	68.46	67.56	67.51	67.49	67.31	7
8	68.27	70.61	69.51	70.16	72.13	72.76	67.56	68.82	67.56	67.51	67.49	67.37	8
9	68.55	70.60	69.50	70.11	72.13	72.65	67.56	69.36	67.79	67.51	67.48	67.28	9
10	68.31	70.85	69.47	69.40	72.13	72.52	67.61	69.36	69.10	67.50	67.47	67.26	10
11	68.22	70.74	69.50	69.38	72.07	72.23	67.65	69.35	70.11	67.50	67.47	67.26	11
12	68.18	70.81	69.44	69.79	72.13	71.87	67.61	69.36	70.95	67.50	67.47	67.30	12
13	69.37	71.13	69.42	69.98	72.14	71.87	67.55	69.37	72.12	67.51	67.47	67.35	13
14	69.85	70.78	69.42	70.60	72.15	71.88	67.62	69.36	70.36	67.51	67.47	67.25	14
15	70.33	70.54	69.47	72.02	72.15	71.86	67.58	69.35	69.31	67.51	67.47	67.25	15
16	69.86	70.50	69.57	72.75	72.13	70.87	67.55	69.34	68.27	67.51	67.47	67.28	16
17	69.76	71.00	69.55	74.99	72.20	70.14	67.55	69.30	67.57	67.51	67.48	67.29	17
18	69.66	70.83	69.53	75.06	72.17	69.98	67.55	69.37	67.57	67.50	67.47	67.23	18
19	69.63	70.45	69.44	75.04	72.17	70.00	67.55	69.38	67.75	67.50	67.47	67.23	19
20	70.25	70.36	69.40	75.02	72.16	70.10	67.55	68.42	67.89	67.50	67.47	67.23	20
21	70.63	70.23	68.85	75.06	72.17	70.00	67.55	67.57	70.35	67.50	67.47	67.23	21
22	70.64	69.70	69.18	75.18	72.18	70.10	67.56	67.92	71.47	67.51	67.47	67.23	22
23	70.82	69.54	69.53	75.21	72.18	69.86	67.55	67.55	71.02	67.51	67.48	67.23	23
24	70.96	70.49	69.42	75.21	72.18	69.60	67.54	67.53	70.96	67.51	67.48	67.26	24
25	71.08	70.81	69.43	75.19	72.19	69.61	67.54	67.91	71.40	67.50	67.47	67.34	25
26	71.08	70.78	69.47	75.17	72.18	69.04	67.54	67.56	70.37	67.50	67.47	67.34	26
27	70.96	70.43	69.41	75.15	72.19	68.03	67.54	67.50	70.25	67.50	67.47	67.33	27
28	70.80	70.40	69.40	75.12	71.96	67.80	67.54	67.50	70.46	67.49	67.47	67.32	28
29	70.64	70.26	69.59	74.74		67.62	67.54	67.49	70.73	67.49	67.47	67.30	29
30	70.61	70.24	69.29	73.35		67.98	67.54	67.49	69.31	67.49	67.31	67.28	30
31	70.58		69.39	72.80		68.01		67.62		67.49	67.29		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-23-70	0045	75.23									
3- 9-70	1215	72.87									
6-13-70	0930	72.52									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 39 59	120 27 40	NW20 3S 14E	52200	88.0 86.29	12- 8-50 1-26-69	OCT 36-SEP 60 OCT 61-DATE		1937		1.76 USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Divisions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles. To change gage height to elevation add 100 feet.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	804150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	72.12	72.16	71.96	71.27	73.80	73.15	70.35	69.94	69.85	70.89	69.76	69.77	1
2	72.24	72.19	72.17	71.27	73.47	73.29	70.10	69.88	70.86	71.13	69.77	69.74	2
3	72.27	72.24	71.93	71.36	73.27	73.22	70.02	69.89	71.65	70.95	69.77	69.74	3
4	72.28	72.43	71.82	71.27	73.25	73.18	70.00	69.88	71.57	70.20	69.77	69.74	4
5	72.24	72.41	71.50	71.48	73.24	73.22	69.98	70.60	71.50	69.98	69.79	69.75	5
6	72.28	72.59	71.35	71.93	73.23	73.25	69.95	71.06	70.40	69.91	69.80	69.76	6
7	72.11	72.39	71.31	71.86	73.23	73.68	69.93	70.60	69.99	69.86	69.79	69.75	7
8	71.18	72.32	71.32	71.84	73.22	73.69	69.91	70.58	69.86	69.82	69.77	69.71	8
9	70.96	72.21	71.36	71.79	73.22	73.67	69.88	71.10	69.90	69.78	69.78	69.71	9
10	70.95	72.23	71.34	71.65	73.22	73.49	69.88	71.16	70.17	69.75	69.78	69.72	10
11	70.68	72.30	71.33	71.31	73.18	73.42	69.89	71.15	71.40	69.78	69.79	69.72	11
12	70.56	72.27	71.33	71.31	73.19	73.00	69.93	71.16	71.74	69.82	69.78	69.72	12
13	70.69	72.44	71.30	71.61	73.21	72.97	69.95	71.16	73.09	69.83	69.78	69.73	13
14	71.57	72.41	71.29	71.78	73.22	72.97	70.00	71.17	72.36	69.80	69.77	69.75	14
15	71.91	72.26	71.28	72.85	73.22	72.95	69.94	71.16	71.24	69.81	69.77	69.74	15
16	71.86	72.17	71.34	73.35	73.18	72.73	69.92	71.15	71.05	69.79	69.77	69.74	16
17	71.68	72.22	71.37	75.16	73.25	71.83	69.89	71.12	70.20	69.78	69.74	69.74	17
18	71.76	72.32	71.36	75.87	73.22	71.92	69.85	71.16	69.98	69.78	69.73	69.73	18
19	71.73	72.01	71.36	75.86	73.20	71.58	69.86	71.16	69.93	69.77	69.73	69.74	19
20	71.78	71.98	71.31	75.85	73.19	71.89	69.81	71.10	70.03	69.78	69.77	69.75	20
21	72.18	71.92	71.26	75.92	73.19	71.68	69.85	70.24	71.21	69.78	69.78	69.75	21
22	72.20	71.72	70.83	76.07	73.18	71.77	69.84	69.98	71.97	69.78	69.78	69.74	22
23	72.23	71.49	71.36	76.15	73.18	71.73	69.87	70.18	72.58	69.78	69.77	69.73	23
24	72.37	71.61	71.36	76.15	73.18	71.50	69.88	69.98	71.96	69.78	69.77	69.74	24
25	72.43	71.14	71.32	76.14	73.20	71.48	69.87	69.90	72.39	69.79	69.78	69.73	25
26	72.47	72.15	71.32	76.12	73.21	71.42	69.88	70.14	72.29	69.80	69.78	69.73	26
27	72.39	72.07	71.32	76.10	73.21	70.75	69.86	69.94	71.58	69.82	69.78	69.77	27
28	72.34	71.89	71.28	76.05	73.09	70.54	69.88	69.85	72.10	69.78	69.81	69.77	28
29	72.22	71.83	71.29	75.96		70.20	69.86	69.82	71.51	69.77	69.78	69.77	29
30	72.19	71.81	71.31	74.67		70.07	69.89	69.82	72.08	69.74	69.77	69.78	30
31	72.18		71.27	73.84		70.26		69.82		69.76	69.80		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-25-70	0400	76.16	6-13-70	1900	73.34						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13 USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.38	67.57	67.63	67.63	69.21	68.32	68.22	68.72	68.30	68.70	68.13	68.27	1
2	68.40	67.56	67.62	67.59	69.14	72.98	68.23	68.46	68.36	69.70	68.08	68.12	2
3	68.34	67.56	67.63	67.59	69.09	71.54	68.25	68.40	68.28	69.24	68.10	68.09	3
4	68.42	67.56	67.63	67.58	68.86	69.26	68.28	68.38	68.26	68.24	68.10	68.18	4
5	68.35	67.59	67.63	67.56	68.30	72.94	68.27	68.51	68.28	68.28	68.07	68.11	5
6	68.39	67.93	67.59	67.52	68.22	71.65	68.30	68.33	68.26	68.19	68.05	68.09	6
7	68.40	68.29	67.57	67.51	68.18	69.39	68.24	68.28	68.22	68.10	68.03	68.09	7
8	68.45	67.99	67.56	67.50	68.13	68.76	68.26	68.28	68.26	68.16	68.00	68.10	8
9	68.38	67.78	67.53	67.52	68.07	68.48	68.32	68.41	68.28	68.15	68.11	68.09	9
10	68.53	67.68	67.50	67.58	68.03	68.43	68.27	68.75	68.71	68.14	68.12	68.13	10
11	68.48	67.61	67.50	67.53	67.99	68.31	68.27	69.08	69.65	68.11	68.13	68.07	11
12	68.52	67.58	67.50	67.70	67.95	68.27	68.39	69.27	69.56	68.18	68.13	68.02	12
13	68.49	67.60	67.52	68.58	67.94	68.19	68.48	69.33	69.20	68.18	68.05	68.05	13
14	68.52	67.57	67.52	69.14	67.93	68.12	68.53	69.33	69.07	68.12	68.07	68.04	14
15	69.16E	67.56	67.50	76.49	68.66	68.08	68.75	69.26	68.68	68.10	68.09	68.07	15
16	69.25E	67.54	67.50	74.03	68.56	68.03	68.80	69.06	68.44	68.08	68.04	68.14	16
17	68.46E	67.53	67.50	78.32	68.28	68.01	68.54	68.85	68.38	68.02	67.99	68.07	17
18	68.14E	67.52	67.50	71.27	69.33	67.97	68.50	68.90	68.38	68.09	67.98	68.20	18
19	67.97E	67.53	67.50	69.85	68.98	68.14	68.55	68.42	68.30	68.03	68.06	68.26	19
20	67.85E	67.58	67.55	69.17	68.50	68.55	68.60	68.37	68.25	68.02	68.07	68.27	20
21	67.76E	67.58	67.56	69.85	68.30	68.34	68.58	68.32	68.29	68.01	68.13	68.32	21
22	67.70E	67.57	67.63	75.60	68.18	68.09	68.61	68.38	68.20	68.12	68.14	68.27	22
23	67.67	67.57	67.67	70.83	68.10	67.91	68.60	68.40	68.15	68.08	68.09	68.31	23
24	67.63	67.60	67.63	69.47	68.05	67.92	68.65	68.35	68.16	68.08	68.12	68.24	24
25	67.62	67.58	67.63	69.06	68.02	67.98	68.70	68.36	68.20	68.08	68.14	68.16	25
26	67.60	67.60	67.86	68.97	67.98	68.05	68.56	68.38	68.23	68.08	68.13	68.25	26
27	67.58	67.61	68.86	69.02	67.93	68.14	68.62	68.38	68.25	68.02	68.09	68.30	27
28	67.57	67.62	68.18	70.16	68.04	68.19	68.79	68.26	68.32	68.10	68.08	68.35	28
29	67.57	67.63	67.90	70.02		68.28	68.67	68.29	68.32	68.08	68.15	68.40	29
30	67.57	67.64	67.77	69.52		68.26	68.78	68.24	68.28	68.08	68.12	68.32	30
31	67.58		67.69	69.32		68.25		68.26		68.12	68.33		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	1-15-70	1300	80.01	3-2-70	1630	76.82			
NR - NO RECORD	1-17-70	0500	81.21	3-5-70	1730	76.17			
NF - NO FLOW	1-22-70	0620	77.50						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1-4 SEC. T. & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941 records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	42.60	42.82	42.28	41.88	45.90	43.90	41.49	41.43	41.19	41.90	41.11	41.14	1
2	42.65	42.84	42.59	41.88	45.50	44.87	41.45	41.39	40.89	41.98	41.14	41.09	2
3	42.73	42.81	42.49	41.94	44.61	45.22	41.40	41.36	42.05	41.86	41.13	41.07	3
4	42.82	43.11	42.33	41.89	44.46	44.37	41.39	41.35	42.20	41.56	41.07	41.10	4
5	42.89	43.14	42.19	41.87	44.30	44.98	41.37	41.39	42.16	41.32	41.10	41.08	5
6	42.90	43.51	42.00	42.35	44.24	45.08	41.35	41.82	41.95	41.24	41.09	41.08	6
7	42.90	43.36	41.92	42.37	44.20	45.09	41.34	41.68	41.50	41.18	41.06	41.09	7
8	42.43	43.11	41.91	42.40	44.17	45.32	41.35	41.63	41.41	41.14	41.07	41.07	8
9	41.92	42.89	41.94	42.29	44.13	45.27	41.35	41.65	41.36	41.14	41.08	41.06	9
10	41.91	42.85	41.94	42.27	44.10	44.99	41.34	41.98	41.45	41.15	41.10	41.07	10
11	41.78	43.02	41.92	41.99	44.07	44.78	41.33	42.02	42.09	41.10	41.08	41.11	11
12	41.67	42.95	41.93	41.93	43.96	44.10	41.37	42.01	43.03	41.16	41.11	41.07	12
13	41.62	43.00	41.90	42.14	44.06	43.67	41.40	42.04	42.72	41.15	41.08	41.08	13
14	41.90	43.28	41.89	42.34	44.07	43.63	41.43	42.04	42.05	41.11	41.09	41.08	14
15	42.35	42.98	41.89	44.46	44.14	43.58	41.42	42.02	41.77	41.08	41.11	41.07	15
16	42.63	42.81	41.90	45.38	44.15	43.53	41.43	42.01	41.48	41.10	41.08	41.08	16
17	42.27	42.75	41.94	49.01	44.17	42.57	41.40	41.81	41.38	41.08	41.07	41.07	17
18	42.36	42.85	41.95	50.93	44.32	42.34	41.39	41.94	41.34	41.11	41.05	41.11	18
19	42.43	42.58	41.95	51.04	44.28	42.20	41.41	41.72	41.52	41.12	41.08	41.12	19
20	42.41	42.44	41.92	50.98	44.17	42.36	41.40	41.95	42.26	41.11	41.07	41.16	20
21	42.66	42.38	41.90	51.07	44.11	42.29	41.34	41.66	42.98	41.06	41.10	41.14	21
22	42.81	42.32	41.73	52.31	44.09	42.27	41.37	41.47	42.74	41.09	41.11	41.11	22
23	42.83	42.09	41.82	51.96	44.07	42.26	41.38	41.31	42.76	41.10	41.10	41.13	23
24	42.99	42.01	41.94	51.68	44.06	42.15	41.42	41.44	43.00	41.09	41.11	41.12	24
25	43.12	42.45	41.92	51.56	44.05	42.07	41.42	41.16	42.46	41.11	41.12	41.10	25
26	43.24	42.56	41.91	51.51	44.05	42.06	41.39	41.39	42.47	41.11	41.13	41.10	26
27	43.20	42.55	42.00	51.47	44.04	41.89	41.42	41.42	42.45	41.10	41.10	41.13	27
28	43.12	42.38	41.94	51.52	44.04	41.60	41.40	41.38	42.64	41.10	41.10	41.13	28
29	42.96	42.34	41.91	51.50		41.56	41.38	41.16	42.10	41.10	41.12	41.14	29
30	42.87	42.29	41.95	50.06		41.48	41.42	41.23	42.08	41.07	41.10	41.15	30
31	42.83		41.88	47.02		41.41		41.08		41.07	41.13		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-19-70	0730	51.07	3- 5-70	2200	45.97						
1-22-70	1230	52.65									
3- 2-70	2200	46.21									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 37 38	120 59 20	SW33 38 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 1891-1894	1940		0.00	USCGS
Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.											

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28.10	28.48	26.81	25.62	32.98	30.05	24.71	24.33	23.99	26.86	23.70	23.72	1
2	28.03	28.48	27.40	25.60	32.36	30.49	24.72	24.26	23.96	25.74	23.76	23.63	2
3	28.27	28.47	27.62	25.65	31.47	31.53	24.52	24.22	25.06	25.85	23.75	23.57	3
4	28.38	28.75	27.13	25.65	31.01	30.76	24.46	24.20	26.11	25.30	23.66	23.56	4
5	28.60	28.97	26.78	25.53	30.84	31.05	24.41	24.17	26.16	24.57	23.65	23.59	5
6	28.57	29.30	26.24	26.30	30.78	32.10	24.37	24.79	26.01	24.27	23.65	23.62	6
7	28.64	29.32	25.93	26.91	30.72	32.00	24.33	25.18	24.76	24.10	23.57	23.61	7
8	28.00	29.05	25.83	26.97	30.68	32.47	24.35	24.84	24.28	23.97	23.55	23.60	8
9	26.50	28.74	25.84	26.81	30.66	32.59	24.32	24.85	24.13	23.90	23.56	23.55	9
10	26.05	28.57	25.85	26.67	30.71	32.46	24.29	25.55	24.08	23.90	23.58	23.56	10
11	25.83	28.70	25.80	26.16	30.80	32.00	24.25	25.81	24.60	23.87	23.57	23.60	11
12	25.44	28.73	25.79	25.65	30.73	31.32	24.32	25.86	26.09	23.95	23.60	23.54	12
13	25.30	28.72	25.76	25.85	30.74	30.34	24.40	25.93	27.19	23.93	23.57	23.53	13
14	25.57	29.07	25.70	26.60	30.72	30.04	24.42	25.93	29.19	23.83	23.57	23.59	14
15	26.84	28.92	25.66	28.14	30.67	29.84	24.45	25.89	27.93	23.73	23.62	23.56	15
16	27.81	28.58	25.69	31.10	30.68	29.68	24.46	25.87	26.14	23.68	23.62	23.56	16
17	27.34	28.36	25.77	32.90	30.57	28.72	24.40	25.89	25.52	23.70	23.60	23.55	17
18	27.08	28.37	25.82	35.62	30.68	27.53	24.35	25.80	24.57	23.73	23.54	23.58	18
19	27.53	28.06	25.79	36.33	30.77	27.35	24.39	25.72	24.77	23.76	23.54	23.62	19
20	27.47	27.47	25.78	36.64	30.69	27.22	24.38	25.64	24.08	23.76	23.57	23.67	20
21	27.77	27.33	25.70	36.90	30.63	27.40	24.25	25.42	24.13	23.63	23.57	23.68	21
22	28.38	27.14	25.50	37.56	30.58	27.12	24.24	24.61	25.66	23.60	23.60	23.62	22
23	28.49	26.64	25.16	37.93	30.45	27.11	24.23	24.36	27.26	23.70	23.64	23.61	23
24	28.68	26.23	25.67	37.85	30.32	26.89	24.28	24.39	27.83	23.68	23.62	23.61	24
25	28.93	26.79	25.72	37.66	30.26	26.50	24.33	24.20	27.37	23.66	23.64	23.62	25
26	29.11	27.52	25.65	37.51	30.25	26.42	24.34	24.14	28.06	23.71	23.63	23.60	26
27	29.16	27.59	25.81	37.42	30.25	26.19	24.31	24.21	27.49	23.68	23.62	23.61	27
28	29.05	27.29	25.82	37.38	30.21	25.36	24.29	24.11	26.80	23.67	23.61	23.64	28
29	28.88	27.04	25.68	37.35	25.15	25.15	24.26	24.02	27.37	23.67	23.61	23.63	29
30	28.63	26.87	25.72	36.79	24.91	24.25	24.25	23.98	26.87	23.68	23.64	23.66	30
31	28.52		25.66	34.68		24.70		23.95		23.63	23.67		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-22-70	2200	37.95									
6-14-70	1130	29.47									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE				0.00	USED
				43.15a	12- 9-50			1960		0.00	USCOS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.
a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	19.62	20.00	19.13	18.97	25.42	21.23	16.14	16.07	15.63	17.26E	14.48	14.85	1
2	19.38	19.96	19.34	19.04	24.38	21.44	16.19	15.95	15.85	16.35E	14.63	14.66	2
3	19.39	19.93	19.60	18.78	23.62	22.48	15.92	15.93	16.31	16.01E	14.70	14.65	3
4	19.48	19.84	19.41	18.35	23.09	22.87	15.86	15.85	17.14	15.73	14.68	14.68	4
5	19.64	19.96	19.22	18.17	23.15	23.35	15.82	15.74	17.20	15.38	14.57	14.80	5
6	19.60	20.23	18.95	18.30	23.16	24.32	15.86	15.92	17.01	15.30	14.70	14.92	6
7	19.62	20.42	18.77	18.74	23.01	24.64	15.96	16.16	16.15	15.30	14.62	15.05	7
8	19.41	20.38	18.72	18.68	22.86	24.86	15.96	15.90	15.60	14.99	14.53	14.90	8
9	18.72	20.30	18.71	18.68	22.79	25.02	15.86	15.90	15.47	14.79	14.60	14.69	9
10	18.26	20.19	18.70	18.54	22.89	24.96	15.77	16.30	15.71	14.78	14.62	14.68	10
11	18.07	20.17	18.63	18.38	23.10	24.52	15.70	16.60	16.71	14.73	14.54	14.77	11
12	17.79	20.16	18.61	18.17	23.08	23.85	15.81	16.74	17.17	14.75	14.50	14.92	12
13	17.73	20.08	18.56	18.19	22.98	22.81	16.02	16.76	16.91	15.01	14.58	14.98	13
14	17.71	20.21	18.29	18.51	22.95	22.56	16.17	16.77	18.03	14.86	14.56	15.07	14
15	18.45	20.44	18.17	19.13	22.67	21.60	16.11	16.72	18.03	14.62	14.54	15.02	15
16	19.18	20.33	18.03	21.14	22.49	21.08	16.08	16.68	16.75	14.60	14.70	14.93	16
17	19.38	19.94	18.01	22.47	22.31	20.57	16.08	16.95	16.13	14.49	14.73	14.91	17
18	19.35	19.38	18.00	25.25	22.28	19.61	15.98	17.20	15.60	14.52	14.62	14.93	18
19	19.64	19.33	17.98	28.02	22.44	19.33	15.97	17.21	15.22	14.59	14.39	15.14	19
20	19.63	19.28	17.98	28.38	22.63	19.03	15.94	17.20	15.06	14.62	14.56	15.28	20
21	19.63	19.28	17.79	28.58	22.68	19.06	15.81	17.01	15.12	14.53	14.57	15.32	21
22	19.92	19.21	17.68	28.84	22.63	18.76	15.73	16.45	15.85E	14.32	14.65	15.30	22
23	20.04	19.05	17.41	30.90	22.31	18.69	15.64	16.75E	14.38	14.67	15.15	15.23	23
24	20.22	18.59	17.64	30.73	21.94	18.60	15.64	15.49	17.56E	14.39	14.85	15.11	24
25	20.42	18.28	17.91	29.82	21.71	18.12	15.83	15.74	17.22E	14.42	14.82	15.06	25
26	20.56	18.83	18.32	29.44	21.64	17.77	15.97	15.84	17.36E	14.52	14.77	15.09	26
27	20.62	19.23	18.64	29.24	21.67	17.45	16.17	15.74	17.46E	14.65	14.77	15.22	27
28	20.58	19.30	18.78	29.11	21.40	16.90	16.17	15.64	16.89E	14.64	14.71	15.25	28
29	20.51	19.20	18.79	28.86		16.61	15.98	15.55	17.71E	14.49	14.75	15.18	29
30	20.25	19.16	18.79	28.34		16.52	16.00	15.72	17.85	14.42	14.85	15.15	30
31	20.08		18.86	27.18		16.28		15.77		14.40	14.91		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

a - SEE (a) BELOW

DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.
1-23-70	1800	31.35a									
3- 9-70	2000	25.05									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD	ZERO ON GAUGE	REF. DATUM	
			CF5	GAUGE HT.	DATE						
37 38 28	121 13 37	SW29 3S 7E		38.31a	1-27-69	JAN 50-MAR 52	SEP 43-DEC 49	1943 1959	0.00	USED	
						OCT 65-DATE	APR 52-SEP 65	1959	0.00	USCGS	
								1959	3.41	USED	
Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions.											
a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.											

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.78	3.72	3.65	5.98	7.28	6.75	4.37	1.50	6.39	2.29	1.36	1.33	1
2	3.75	3.66	3.80	4.52	6.85	9.08	2.39	1.54	6.82	1.67	1.39	1.28	2
3	3.73	2.19	3.76	4.07	7.50	8.66	1.99	1.57	7.42	1.52	1.39	1.29	3
4	3.79	2.10	3.74	4.27	7.91	7.82	1.77	1.50	7.40	1.50	1.43	1.35	4
5	3.78	3.62	3.73	4.27	7.55	8.00	1.72	1.50	6.11	1.50	1.38	1.35	5
6	3.68	2.29	3.71	3.66	7.28	7.50	1.74	1.60	5.24	1.45	1.38	1.38	6
7	3.67	2.15	3.68	1.90	6.97	7.06	1.66	3.75	4.09	1.47	1.38	1.35	7
8	3.66	2.08	3.71	4.29	6.77	7.06	1.69	3.76	3.66	1.48	1.38	1.30	8
9	3.62	2.07	3.58	4.34	6.58	6.87	1.63	3.74	5.79	1.54	1.38	1.30	9
10	3.50	2.08	3.23	4.31	6.53	6.55	1.62	3.73	8.25	1.40	1.35	1.29	10
11	3.57	2.46	3.71	4.31	6.50	6.53	1.61	3.82	6.04	1.37	1.35	1.28	11
12	3.70	2.43	3.75	4.31	6.44	6.31	1.61	4.19	3.92	1.40	1.34	1.26	12
13	3.67	2.43	3.73	4.32	6.56	5.98	1.64	3.96	2.42	1.39	1.36	1.30	12
14	3.60	2.43	3.73	5.38	5.81	5.99	1.58	3.85	2.11	1.37	1.44	1.32	14
15	3.36	2.46	3.73	6.17	5.81	5.99	1.57	4.65	1.77	1.39	1.45	1.33	15
16	3.37	2.46	3.67	8.76	5.83	6.00	1.57	6.85	1.63	1.35	1.39	1.32	16
17	3.36	2.42	3.75	15.94	5.91	6.01	1.60	6.82	1.57	1.37	1.37	1.31	17
18	3.38	2.41	3.72	13.81	6.16	6.01	1.63	6.81	1.50	1.43	1.40	1.37	18
19	3.37	2.38	3.76	12.46	6.53	6.00	1.58	6.81	1.53	1.42	1.40	1.36	19
20	3.37	2.37	3.76	11.78	6.55	6.02	1.60	6.44	1.45	1.34	1.36	1.32	20
21	3.39	2.78	3.84	13.05	6.56	5.96	1.60	5.34	2.59	1.33	1.38	1.30	21
22	3.39	3.82	3.83	18.54	6.57	5.73	1.64	2.48	3.87	1.32	1.38	1.29	22
23	3.42	3.83	3.76	14.49	6.57	5.28	1.58	3.44	4.09	1.34	1.38	1.30	23
24	3.44	3.81	4.38	12.96	6.57	4.16	1.58	6.18	3.30	1.42	1.40	1.30	24
25	3.53	3.82	6.21	12.94	6.44	3.39	1.57	6.08	3.00	1.36	1.43	1.30	25
26	3.50	3.86	6.13	12.93	6.13	2.39	1.61	5.25	2.82	1.36	1.40	1.37	26
27	3.53	3.85	6.09	12.70	6.13	2.43	1.65	5.30	1.89	1.35	1.43	1.40	27
28	3.62	3.84	6.06	11.66	6.13	3.23	1.64	5.53	6.01	1.42	1.41	1.31	28
29	3.62	3.81	6.06	10.27	3.05	1.49	1.64	6.25	4.58	1.41	1.42	1.40	29
30	3.72	3.82	6.03	8.95	3.08	1.50	1.50	5.68	2.32	1.38	1.40	1.31	30
31	3.70		6.01	7.31	3.85			5.50		1.35	1.39		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	1-17-70	1200	18.15								
NR - NO RECORD	1-22-70	1400	19.23								
NF - NO FLOW	3- 2-70	0015	9.36								

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 28 11E	62000	31.8	12-23-55	JUN 28-DEC 39				117.21	USCGS
						APR 40-DATE					

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	40.93	39.55	39.49	43.74	48.92	44.74	40.53	36.69	43.09	38.67	36.21	36.58	1
2	40.70	39.56	39.32	43.66	48.00	46.91	40.49	36.68	44.31	38.14	36.15	36.52	2
3	40.65	39.39	39.46	41.34	47.27	49.99	38.75	36.74	45.31	37.59	36.26	36.62	3
4	40.64	38.13	39.44	40.65	48.51	49.75	38.18	36.64	46.30	37.33	36.14	36.70	4
5	40.77	37.70	39.42	40.74	48.90	48.81	37.75	36.37	46.32	37.13	36.11	36.75	5
6	40.81	37.72	39.41	40.69	48.19	48.89	37.75	36.78	44.25	36.99	36.28	36.85	6
7	40.61	37.78	39.37	39.77	47.51	47.59	37.71	36.71	42.89	36.90	36.37	36.67	7
8	40.62	37.61	39.35	38.37	46.98	46.81	37.45	38.56	41.24	36.61	36.40	36.46	8
9	40.59	37.44	39.39	40.21	46.51	46.68	37.25	39.20	40.96	36.55	36.28	36.49	9
10	40.40	37.36	39.17	40.61	46.14	46.08	37.33	39.26	44.56	36.49	36.27	36.64	10
11	40.31	37.32	38.79	40.59	45.99	45.63	37.39	39.56	47.40	36.41	35.98	36.72	11
12	40.45	37.56	39.26	40.60	45.85	45.53	37.48	39.62	44.20	36.34	36.00	36.84	12
13	40.45	37.60	39.38	40.58	45.83	44.86	37.40	39.94	41.24	36.54	36.07	36.81	13
14	40.39	37.58	39.37	40.72	45.62	44.44	37.48	39.70	39.83	36.39	36.01	36.93	14
15	40.35	37.58	39.36	43.62	44.56	44.35	37.49	39.51	39.27	36.48	35.92	36.88	15
16	39.89	37.56	39.38	45.09	44.42	44.28	37.55	41.22	38.61	36.48	36.19	36.96	16
17	39.66	37.54	39.30	49.47	44.40	44.25	37.46	44.38	38.49	36.42	36.30	38.98	17
18	39.50	37.49	39.38	56.51	44.47	44.40	37.24	45.03	38.39	36.50	36.34	36.93	18
19	39.33	37.47	39.41	55.70	45.04	44.33	37.10	45.08	37.81	36.36	36.15	36.67	19
20	39.21	37.43	39.49	54.92	45.53	44.33	37.14	45.12	37.56	36.23	35.96	37.02	20
21	39.20	37.39	39.47	54.53	45.59	44.27	37.07	44.38	37.38	36.27	36.19	37.10	21
22	39.16	37.82	39.63	56.64	45.58	44.12	37.02	42.11	38.12	36.17	36.34	37.29	22
23	39.16	39.11	39.57	57.91	45.59	43.73	36.94	38.95	39.31	36.17	36.62	37.06	23
24	39.16	39.36	39.45	56.07	45.58	42.47	37.06	40.22	39.69	36.29	36.59	36.98	24
25	39.19	39.43	40.69	55.46	45.56	41.09	37.14	43.50	38.81	36.14	36.42	36.78	25
26	39.29	39.47	43.27	55.42	45.19	40.03	37.17	43.45	38.62	36.14	36.27	37.01	26
27	39.25	39.54	43.57	55.40	44.75	39.40	36.92	42.47	38.50	36.18	36.52	37.39	27
28	39.30	39.55	43.61	55.15	44.68	39.24	36.83	42.23	38.17	36.08	36.56	37.14	28
29	39.40	39.54	43.68	54.37		39.41	36.93	42.85	42.42	36.17	36.40	37.15	29
30	39.45	39.51	43.72	53.22		39.26	36.91	43.94	40.97	36.04	36.60	36.63	30
31	39.55		43.74	51.51		39.23		43.24		36.13	36.71		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-18-70	1230	57.41									
1-23-70	----	58.44									
3- 3-70	2300	50.25									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF. DATUM
			CFS	GAGE NT.	DATE					
37 43 50	121 06 35	SE29 28 8E	62500	63.25	12-24-55	APR 40-DATE		1940	0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B03115	STANISLAUS RIVER AT KÖETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	32.65	30.90	30.91	34.62E	39.77	35.48	31.57	28.67	34.26	30.58	27.91	28.20	1
2	32.31	30.91	30.72	34.60E	38.72	36.91	32.37	28.66	35.40	29.97	27.97	28.23	2
3	32.17	30.83	30.84	32.82E	37.88	39.94	30.78	28.68	36.12	29.40	28.11	28.20	3
4	32.18	29.82	30.84	31.73E	38.73	40.17	29.88	28.62	37.16	29.05	27.74	28.34	4
5	32.30	29.24	30.83	31.98E	39.41	39.27	29.39	28.21	37.20	28.82	27.82	28.46	5
6	32.43	29.17	30.82	31.97E	38.80	39.35	29.31	28.42	35.77	28.67	27.94	28.60	6
7	32.25	29.18	30.79	31.43	38.14	38.44	29.35	28.45	34.37	28.61	28.02	28.31	7
8	32.23	29.07	30.76	29.87	37.60	37.56	29.14	29.71	33.00	28.37	28.10	27.88	8
9	32.26	28.90	30.78	31.18	37.17	37.41	28.90	30.67	32.48	28.37	28.21	27.77	9
10	32.12	28.78	30.69	31.81	36.82	37.24	28.96	30.91	35.02	28.27	28.00	27.97	10
11	32.07	28.75	30.24	31.86	36.64	36.44	29.06	31.15	38.05	28.20	27.66	28.16	11
12	32.03	28.90	30.58	31.85	36.49	36.34	29.22	31.15	35.93	28.09	27.62	28.33	12
13	32.07	29.00	30.78	31.86	36.40	35.87	29.21	31.46	33.07	28.22	27.58	28.38	13
14	31.92	28.99	30.78	32.00	36.40	35.37	29.24	31.27	31.69	28.04	27.75	28.48	14
15	32.04	28.98	30.78	34.02	35.30	35.26	29.16	31.09	31.17	28.07	27.69	28.48	15
16	31.73	28.97	30.78	35.87	35.11	35.19	29.22	32.26	30.48	28.08	27.93	28.63	16
17	31.16	28.95	30.73	38.70	35.09	35.15	29.17	35.24	30.28	28.06	28.11	28.61	17
18	30.99	28.92	30.77	44.79	35.17	35.27	29.04	36.05	30.08	28.22	28.07	28.72	18
19	30.72	28.88	30.82	45.73	35.60	35.28	28.92	36.14	29.70	28.16	27.94	28.42	19
20	30.58	28.83	30.87	45.02	36.17	35.35	29.05	36.14	29.40	28.00	27.77	28.62	20
21	30.55	28.81	30.89	44.73	36.24	35.36	28.85	35.67	29.40	27.90	27.90	28.69	21
22	30.52	29.00	30.97E	45.53	36.24	35.17	28.70	33.96	29.55	27.97	27.98	28.67	22
23	30.50	30.27	30.95E	47.22	36.25	34.77	28.71	31.16	30.82	27.87	28.33	28.52	23
24	30.49	30.66	30.88E	45.90	36.25	33.98	28.88	31.34	31.26	28.01	28.37	28.44	24
25	30.50	30.76	31.71E	45.28	36.24	32.54	28.82	34.43	30.62	27.89	28.16	28.28	25
26	30.62	30.81	34.70E	45.20	35.98	31.72	29.03	34.68	30.17	27.93	28.06	28.55	26
27	30.60	30.89	34.66E	45.18	35.51	31.02	28.74	33.84	30.24	27.96	28.18	28.88	27
28	30.62	30.90	34.65E	45.04	35.43	30.68	28.46	33.56	29.70	27.82	28.33	28.75	28
29	30.72	30.92	34.65E	44.53		31.00	28.71	34.00	33.15	27.90	28.15	28.69	29
30	30.77	30.89	34.64E	43.72		30.74	28.77	35.05	32.70	27.70	28.20	28.12	30
31	30.88		34.63E	42.47		30.67		34.66		27.83	28.43		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-18-70	1700	46.87	6-11-70	0600	38.30						
1-23-70	0500	47.56									
3-4-70	0430	40.37									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.O.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63 0.37
								1963		USC&GS USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates road junction, 3.7 miles southwest of Ripon.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	16.41	16.32	15.54	15.99	22.45	17.85	13.47E	12.21	13.06	13.39	10.43	10.85	1
2	16.11	16.27	15.63	16.05	21.22	18.02	12.57E	12.06	13.36	12.48	10.54	10.64	2
3	16.02	16.25	15.87	15.77	20.45	19.26	12.77	12.08	13.72	12.19	10.67	10.60	3
4	16.11	16.07	15.77	15.11	19.96	19.79	12.66	12.08	14.56	11.91	10.56	10.64	4
5	16.21	16.00	15.59	14.91	20.08	20.04	12.50	11.85	14.69	11.67	10.40	10.84	5
6	16.25	16.16	15.37	14.92	20.06	20.77	12.41	11.91	14.46	11.47	10.53	11.01	6
7	16.20	16.38	15.22	15.23	19.83	21.08	12.45	12.17	13.61	11.40	10.50	11.12	7
8	16.07	16.38	15.15	14.97	19.61	21.09	12.45	12.09	12.98	11.12	10.45	10.85	8
9	15.62	16.29	15.14	15.01	19.48	21.22	12.31	12.34	12.62	10.86	10.55	10.61	9
10	15.18	16.18	15.14	15.09	19.48	21.17	12.24	12.74	12.95	10.83	10.60	10.53	10
11	14.98	16.15	15.04	15.02	19.60	20.75	12.16	13.07	14.23	10.82	10.42	10.61	11
12	14.79	16.17	15.01	14.83	19.59	20.21	12.23	13.17	14.55	10.86	10.33	10.91	12
13	14.68	16.12	15.04	14.83	19.47	19.31	12.45	13.26	13.80	11.04	10.35	11.05	13
14	14.58	16.17	14.85	15.07	19.47	18.66	12.58	13.29	14.17	10.96	10.40	11.12	14
15	15.08	16.42	14.69	15.08	19.13	18.17	12.47	13.24	14.31	10.66	10.36	11.10	15
16	15.69	16.36	14.62	17.62	18.91	17.75	12.44	13.30	13.20	10.61	10.46	10.91	16
17	15.83	16.08	14.61	18.87	18.75	17.35	12.40	14.05	12.50	10.57	10.62	10.92	17
18	15.72	15.57	14.58	21.70	18.69	16.58	12.35	14.55	12.07	10.59	10.59	10.99	18
19	15.88	15.46	14.57	24.99	18.82	16.32	12.31	14.62	11.67	10.61	10.42	11.18	19
20	15.89	15.44	14.58	25.41	19.08	16.09	12.28	14.66	11.40	10.63	10.43	11.33	20
21	15.86	15.41	14.46	25.51	19.16	16.11	12.06	14.49	11.42	10.45	10.41	11.46	21
22	16.09	15.36	14.38	25.68	19.13	15.90	11.93	13.92	11.87	10.25	10.50	11.33	22
23	16.22	15.38	14.20	27.89	18.92	15.98E	11.84	12.76	12.68	10.28	10.55	11.22	23
24	16.35	15.17	14.30	27.90	18.61	15.84E	11.91	12.25	13.52	10.33	10.84	11.17	24
25	16.53	14.87	14.51	26.82	18.37	15.62E	12.06	13.06	13.26	10.37	10.86	11.08	25
26	16.68	15.25	15.19	26.38	18.27	15.15E	12.22	13.38	13.37	10.55	10.72	11.16	26
27	16.77	15.60	15.66	26.19	18.22	14.71E	12.38	13.18	13.52	10.67	10.71	11.35	27
28	16.75	15.70	15.81	26.03	18.00	14.40E	12.27	13.00	13.00	10.63	10.70	11.40	28
29	16.72	15.62	15.84	25.77	14.19E	12.15	12.94	13.56	13.56	10.42	10.76	11.29	29
30	16.52	15.57	15.86	25.22	14.14E	12.16	13.24	13.74	13.74	10.32	10.72	11.18	30
31	16.38		15.92	24.22	13.94E		13.32			10.29	10.90		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-23-70	1930	28.52									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-12
CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published in Bulletin No. 130-66, Volume IV.

For other corrections and revisions to previously published reports dating back to 1924, refer to page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-12

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR				CHANGE	
PAGE	MILE & BANK	NAME	ITEM	FROM	TO
132		Bulletin No. 23-58 Surface Water Flow for <u>1958</u> Table 149 San Joaquin River at Whitehouse	July acre-feet Water Year Total	247300 1292000	24730 1069000
B-19		Bulletin No. 130-63 Hydrologic Data <u>1963</u> Volume IV, San Joaquin Valley Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year Maximum Discharge of record	1140E 1140E	804 804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge flow 1963 Water gage ht. Year	3850E 9.98	4170E 10.07
			Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
B-98	8 (12.00- 13.75)	Table B-87 Tranquillity Irrigation District	Diversions Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	204 1777 4066 557 6306 1414 14324	204 2005 4112 383 2291 7200 7454 6659 1414 31774
		Bulletin No. 130-64 Hydrologic Data <u>1964</u> Volume IV, San Joaquin Valley			
68		Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
		Bulletin No. 130-65 Hydrologic Data <u>1965</u> Volume IV, San Joaquin Valley			
61		Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge Jan. 8 9 10 11 12 13 14 15 16 17	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	B NR A NR C NR K NR W NR A NR T NR E NR R NR NR
115	112.55R	Table B-7 Diversions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company	Diversions Total	omitted in 1965	700
		Bulletin No. 130-66 Hydrologic Data <u>1966</u> Volume IV, San Joaquin Valley			
76		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
78		Table B-4 Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

TABLE B-12 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR				CHANGE	
PAGE	MILE & BANK	NAME	ITEM	FROM	TO
86		Table B-4 Merced River at Cressey	Minimum discharge month 1966 Water Year	7	8
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January Average cubic feet per second Monthly use in percent of seasonal Total Diversion Average cubic feet per second	18033 293 3.5 516577 714	1833 29.8 0.4 500377 691
133		Table B-9 Exports from Tuolumne River	Total acre-feet Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	15655 12685 14987 7812 11913 15566 11060 15208 18388 21398 21312 19498 185482	15696 12721 15023 7851 11946 12607 11106 15260 18438 21462 21379 19552 183041
		Bulletin No. 130-67 Hydrologic Data <u>1967</u> Volume IV, San Joaquin Valley			
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions Sept. Total	40 278	17 255
		Bulletin No. 130-68 Hydrologic Data <u>1968</u> Volume IV, San Joaquin Valley			
104		Table B-5 Laguna Water District	Diversions May June July Aug. Total		90 110 110 90 400
107	1.9 L 2.9 L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steen- strup Estate	John & Robert Bogetti
		Bulletin No. 130-69 Hydrologic Data <u>1969</u> Volume IV, San Joaquin Valley			
78		Table B-4 Merced River below Snelling	Daily Mean Discharge Jan. 21 Monthly Mean Monthly acre-feet	946 189 11620	980 190 11680
87		Table B-4 San Joaquin River at Maze Road Bridge	Maximum Discharge 1969 Water Year Gage ht. Time Maximum discharge of record Gage ht. Last line Feet hours Date	42800 36.46 0400 42800 36.46 37.00 2400 2-28-69	45550 36.87 0300 45550 36.87 38.31 2000 1-27-69
95		Table B-4 Tule River below Porterville	Maximum discharge 1969 Water Year Discharge gage ht. Month Day Time		3066 5.35 2 26 1200
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum discharge of record gage ht. Date	37.00a 2-28-69	38.31a 1-27-69



APPENDIX C
GROUND WATER MEASUREMENT



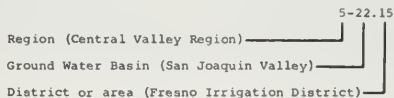
INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the spring well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

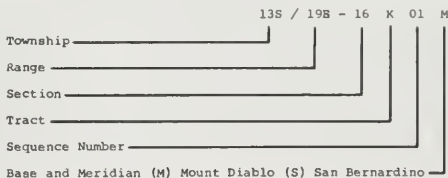
This appendix presents ground water measurement data on these wells for the period October 1, 1969, through September 30, 1970. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

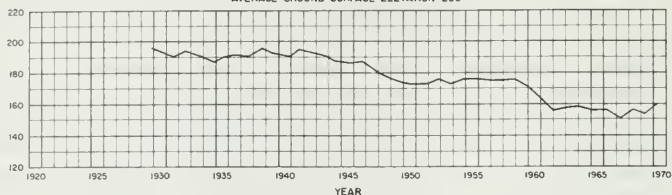
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

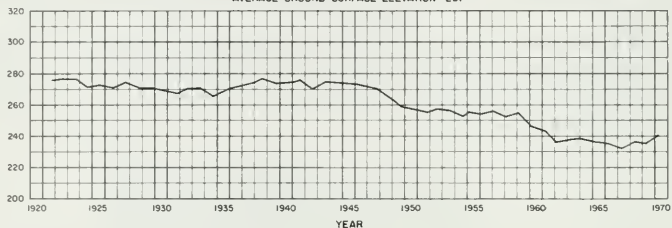
Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C. & G.S. DATUM

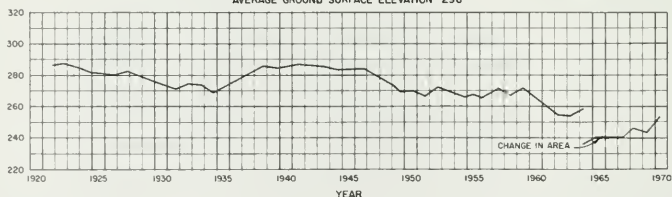
MADERA GROUND WATER AREA
AREA 342.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 230'



FRESNO GROUND WATER AREA
AREA 404.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 291'



CONSOLIDATED GROUND WATER AREA
AREA 243.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 296'



CENTERVILLE BOTTOMS GROUND WATER AREA
AREA 18.15 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'

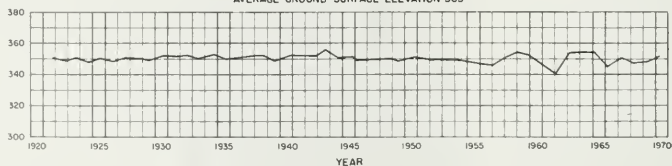
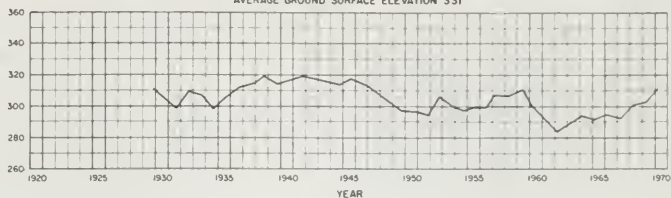


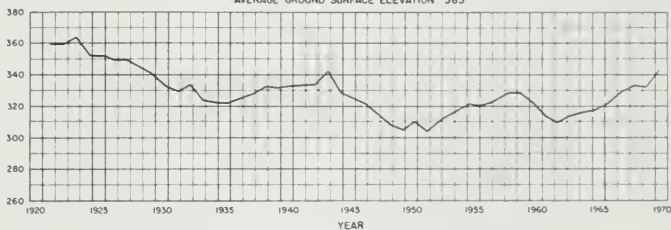
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C. & G.S. DATUM

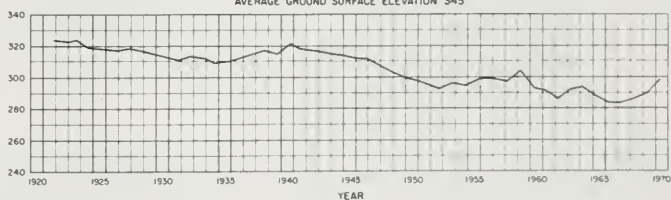
ALTA GROUND WATER AREA
AREA 190.93 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 331'



IVANHOE GROUND WATER AREA
AREA 17.37 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 383'



OUTSIDE IVANHOE GROUND WATER AREA
AREA 76.65 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 345'



MILL CREEK GROUND WATER AREA
AREA 128.25 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'

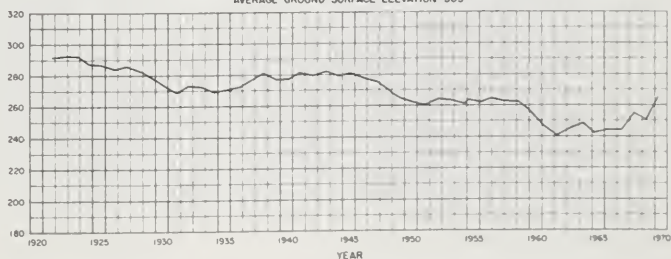


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

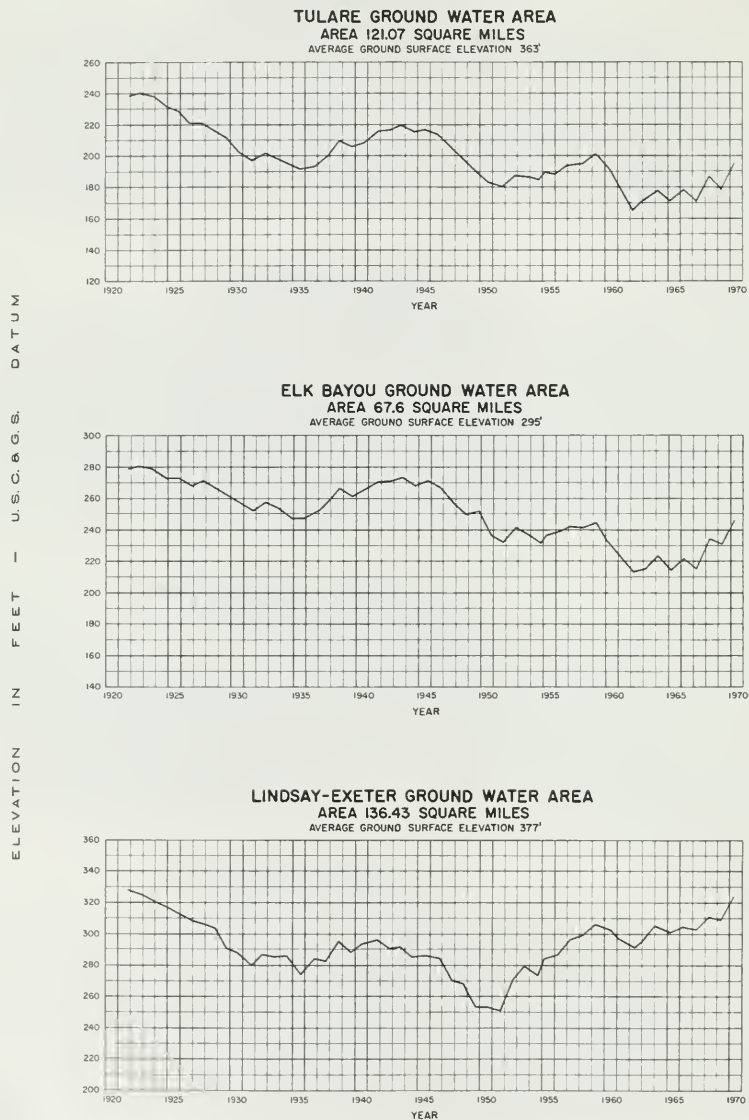


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

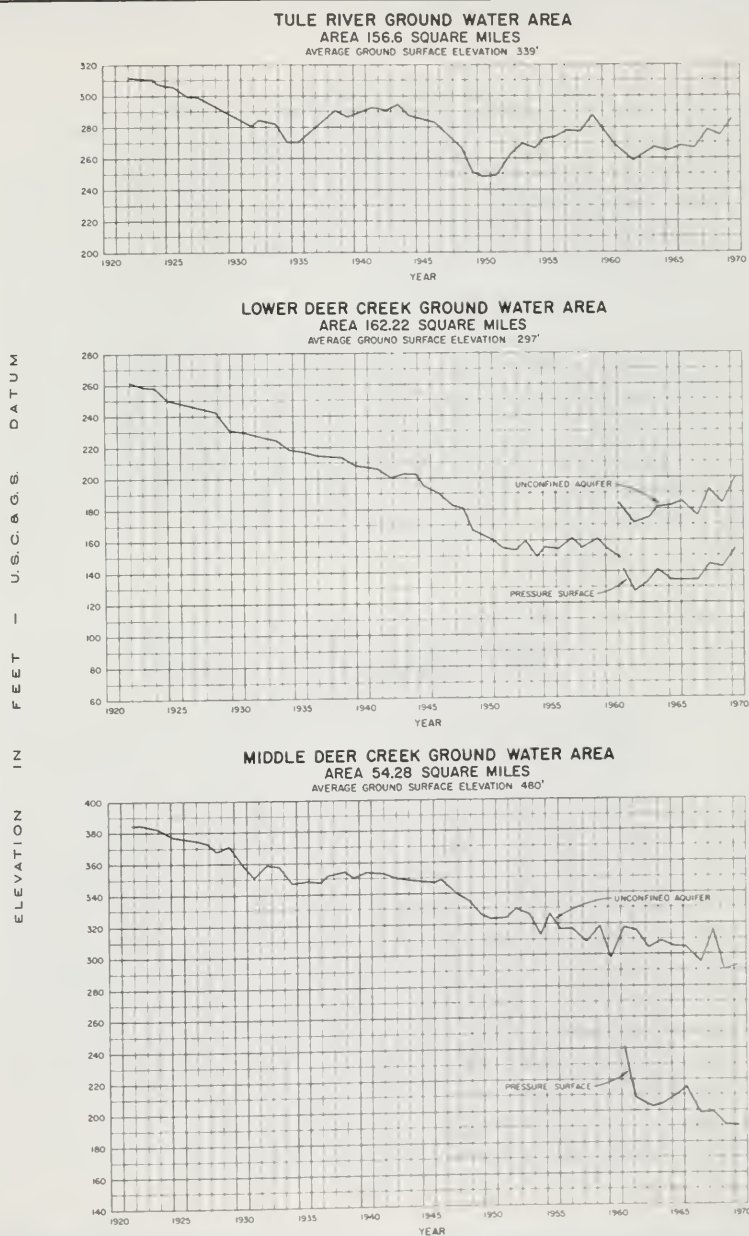
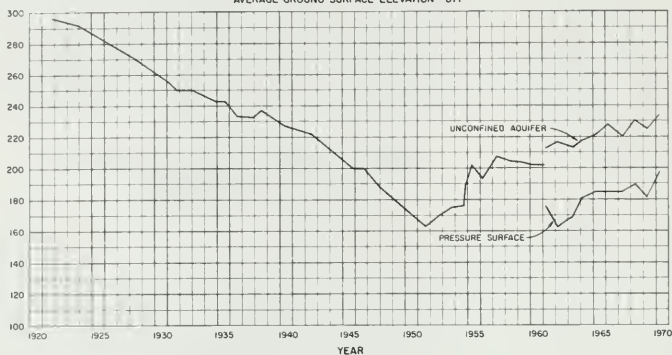


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION
IN
FEET
USCGS
DATUM

DELANO-EARLIMART GROUND WATER AREA
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 371'



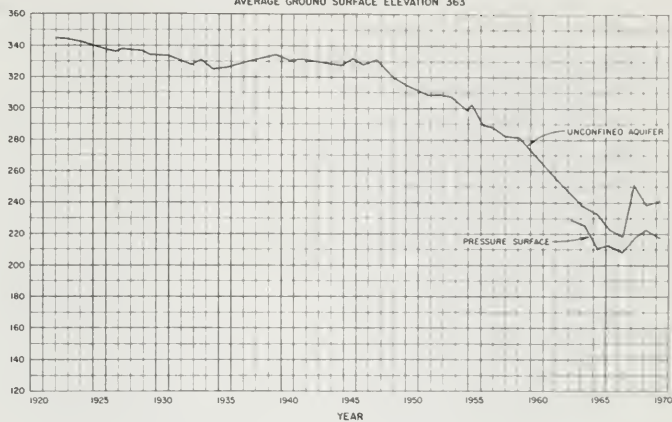
Mc FARLAND-SHAFTER GROUND WATER AREA
AREA 306.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 340'



Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C.&G.S. DATUM

ROSEDALE GROUND WATER AREA
AREA 78.88 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'



ARVIN-EDISON GROUND WATER AREA
AREA 205.18 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 543'

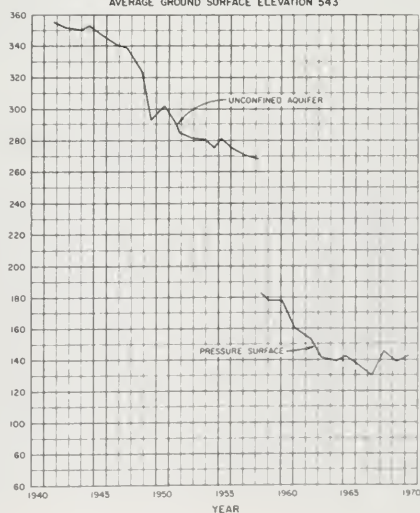
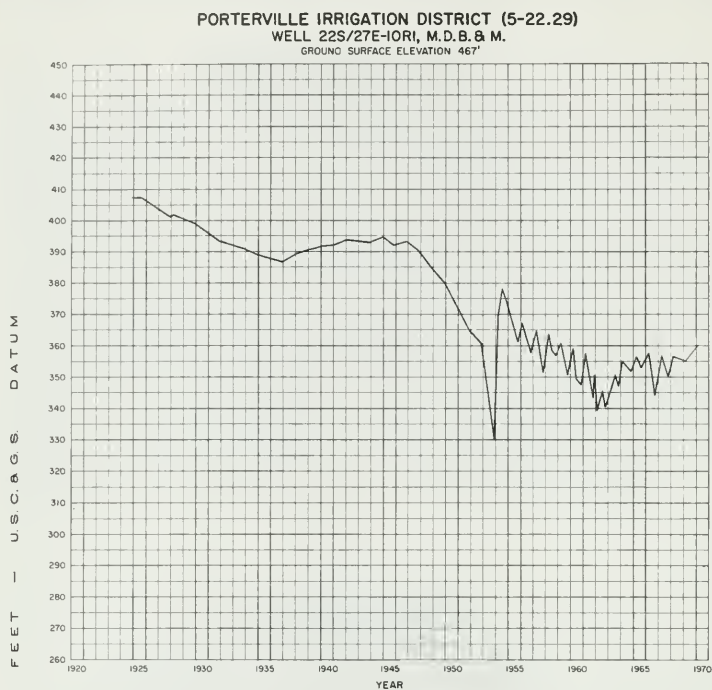


Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



IN

ELEVATION

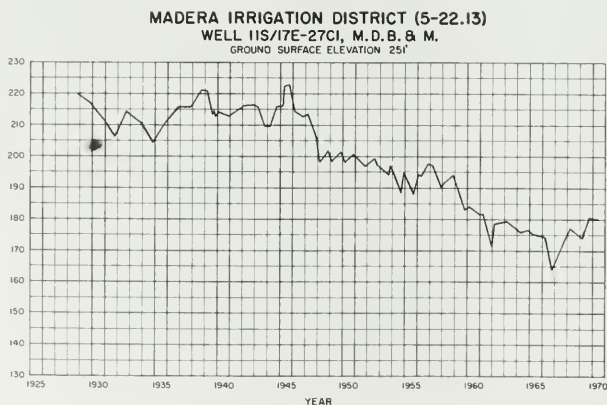
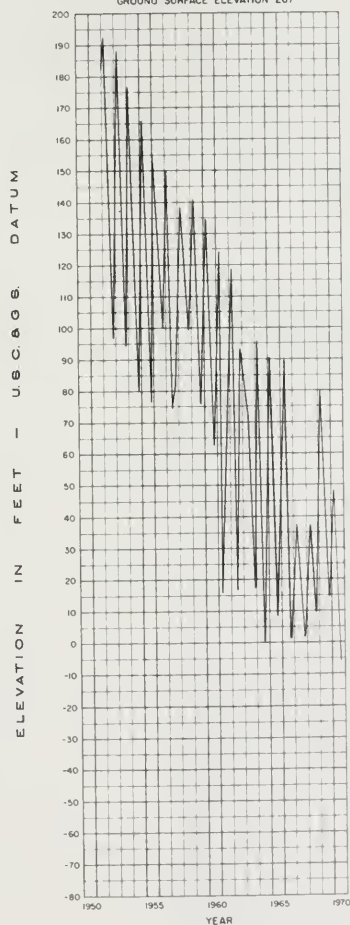
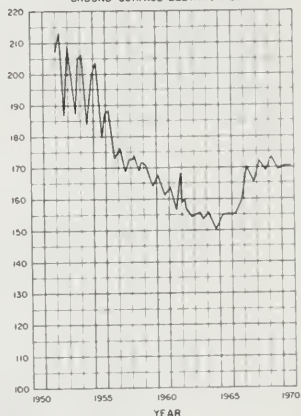


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

**SEMITROPIC WATER STORAGE DISTRICT-
DEEP ZONE (5-22.43)
WELL 27S/23E-1R4, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**SEMITROPIC WATER STORAGE DISTRICT-
SHALLOW ZONE (5-22.43)
WELL 27S/23E-1R1, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**MERCED IRRIGATION DISTRICT
(5-22.09)
WELL 7S/11E-1H1, M.D.B. & M.
GROUND SURFACE ELEVATION 118'**

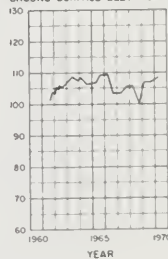
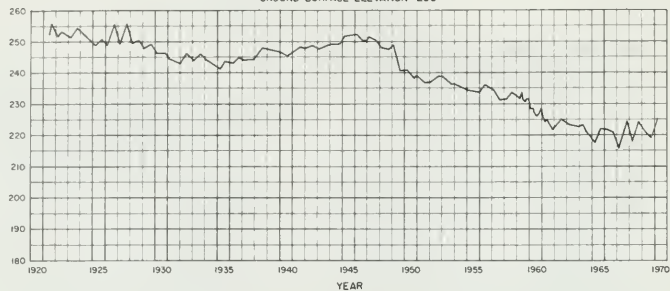


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - DATUM

FRESNO IRRIGATION DISTRICT (5-22.15)
WELL 13S/19E-901, M.D.B. & M.
 GROUND SURFACE ELEVATION 288'



NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 27S/25E-22A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 392'

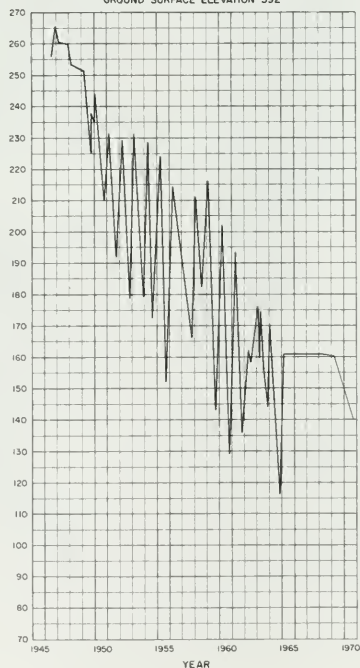
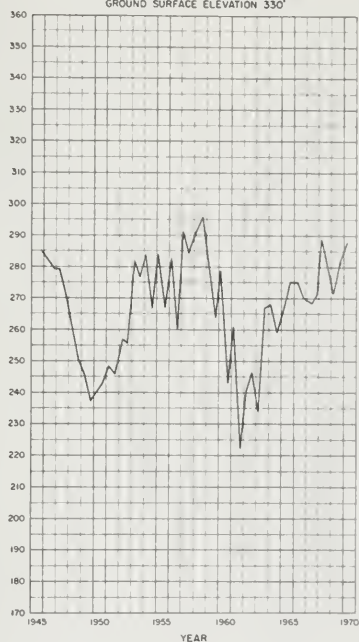


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C. & G.S. DATUM

LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 21S/26E-7A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 330'



OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 167'

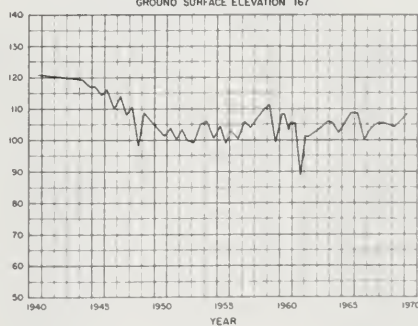
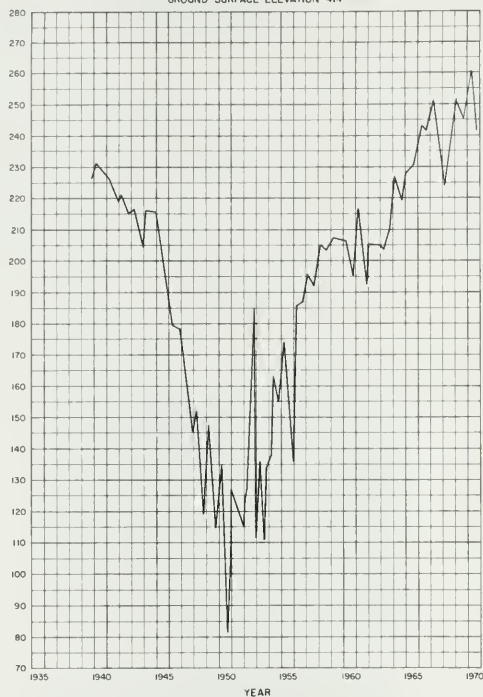


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET - U.S.C.&G.S. DATUM

SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-28H2, M.D.B. & M.
 GROUND SURFACE ELEVATION 414'



AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B. & M.
 GROUND SURFACE ELEVATION 480'

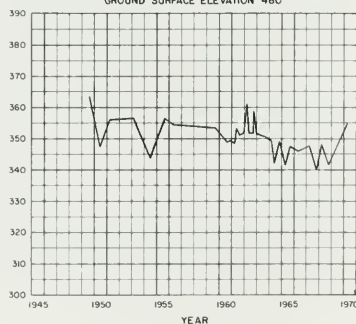
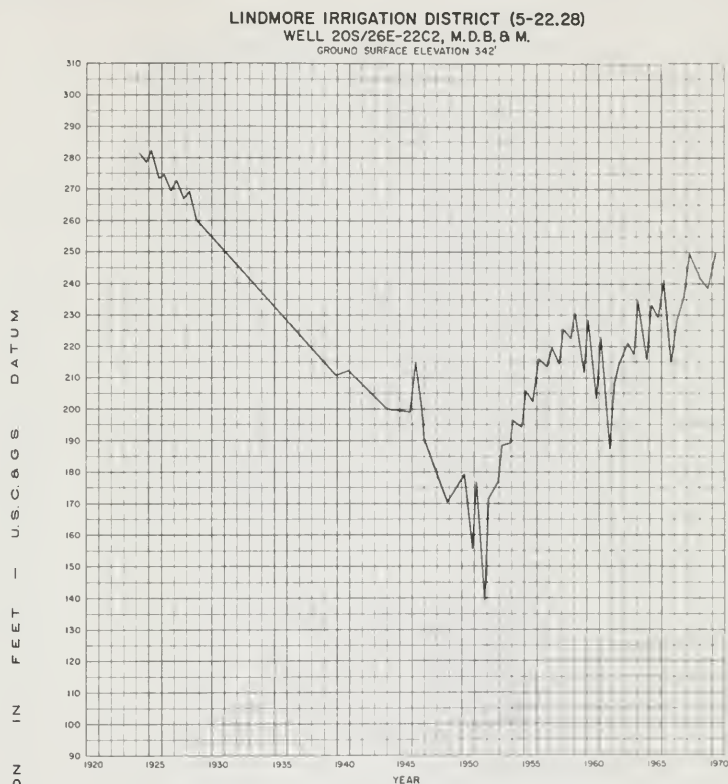
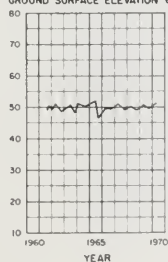


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



MODESTO IRRIGATION DISTRICT
(5-22.07)

WELL 3S/8E-22C2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64'



TURLOCK IRRIGATION DISTRICT
(5-22.08)

WELL 5S/9E-4A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 70'

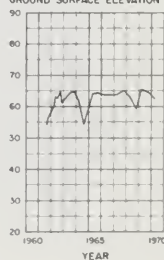
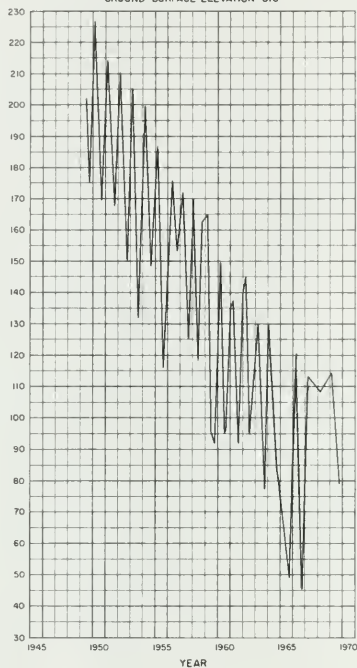


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
—
U.S.C.&G.S.
DATUM

SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B. & M.
 GROUND SURFACE ELEVATION 316'



DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-18N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 99'

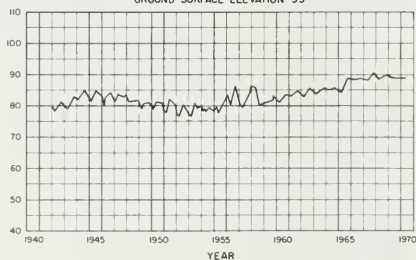
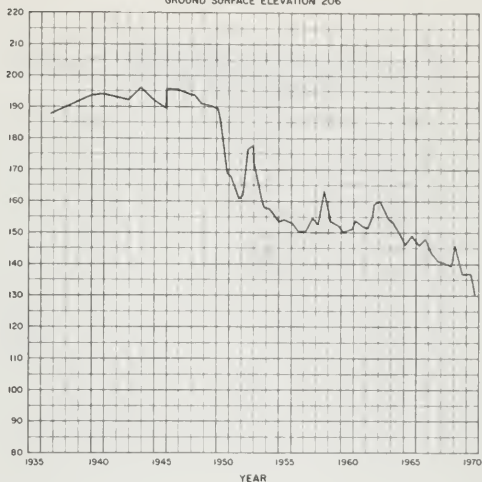


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET DATUM

ALPAUGH-AlLENSWORTH AREA (5-22.34)
WELL 24S/23E-21B2, M.D.B. & M.
GROUND SURFACE ELEVATION 206'



MENDOTA-HURON AREA (5-22.47)
WELL 17S/16E-24R1, M.D.B. & M.

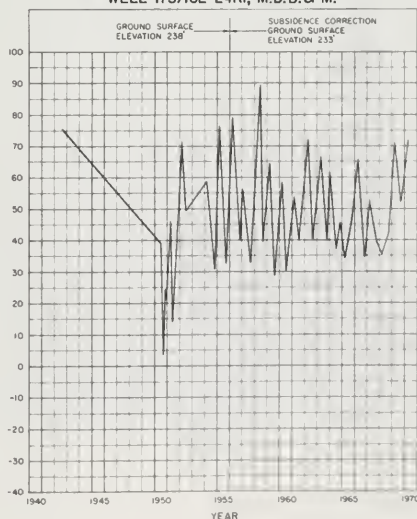


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

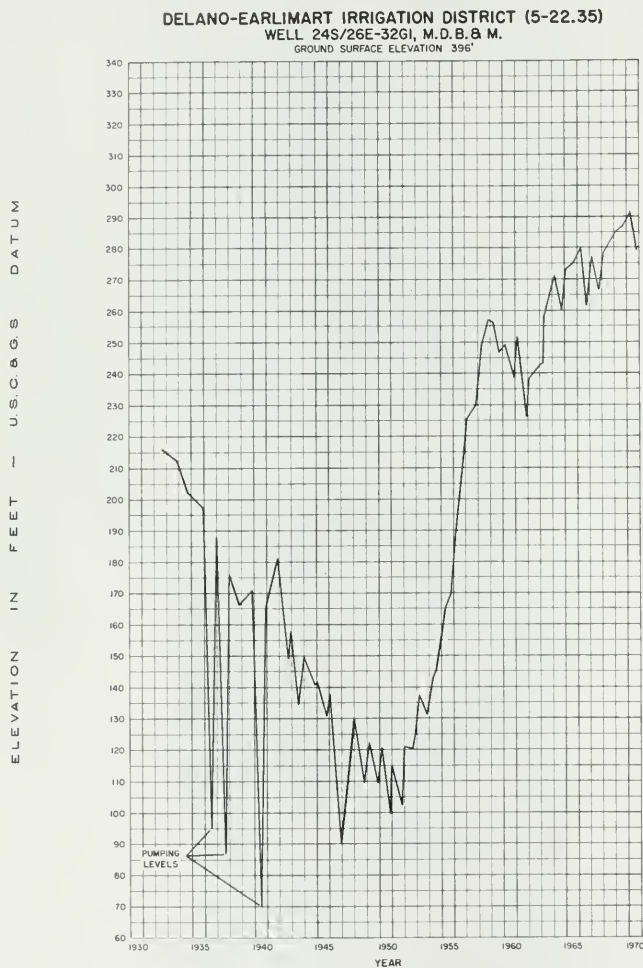
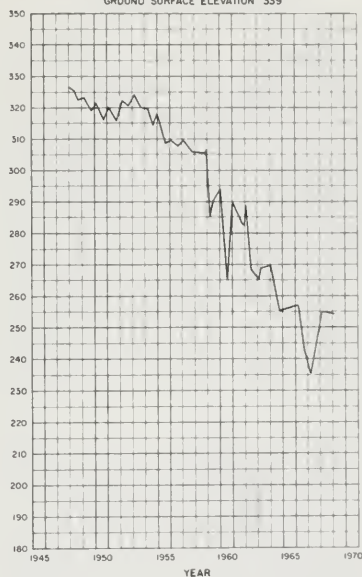


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET -
USCGS
DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-27A1, M.D.B. & M.
GROUND SURFACE ELEVATION 339'



**STONE CORRAL
IRRIGATION DISTRICT (5-22.22)**
WELL 17S/26E-7R1, M.D.B. & M.
GROUND SURFACE ELEVATION 364'

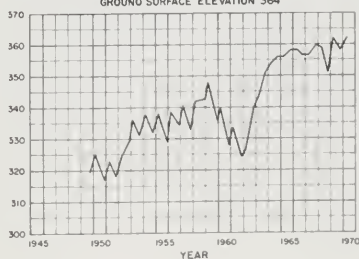
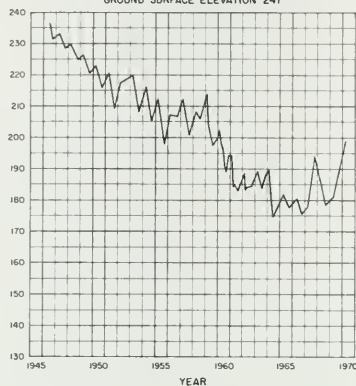


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
—
U.S.C. & G.S.
DATUM

CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 247'



SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 371'

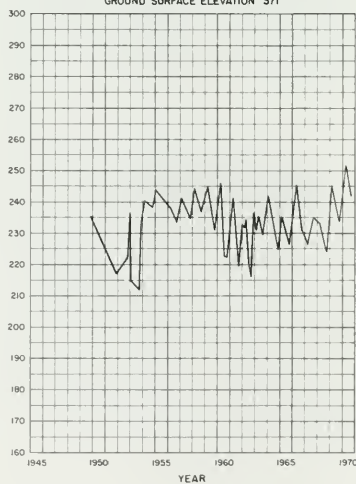


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

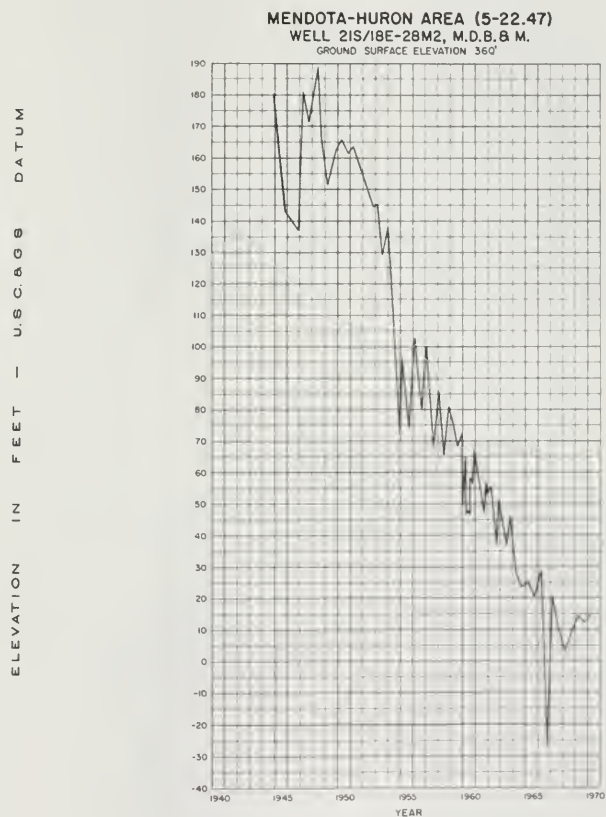
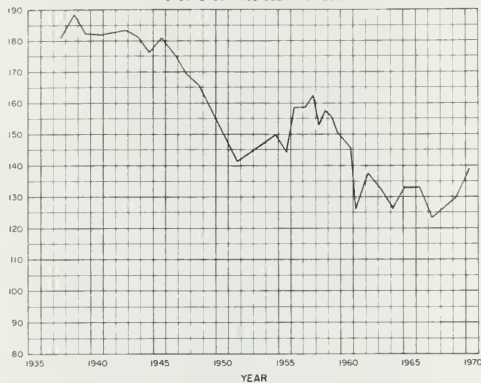


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S. & G.S. DATUM

FRESNO SLOUGH AREA (5-22.17)
WELL 17S/18E-23A2, M.D.B. & M.
 GROUND SURFACE ELEVATION 200'



EXETER IRRIGATION DISTRICT (5-22.26)
WELL 18S/27E-29D1, M.D.B. & M.
 GROUND SURFACE ELEVATION 446'

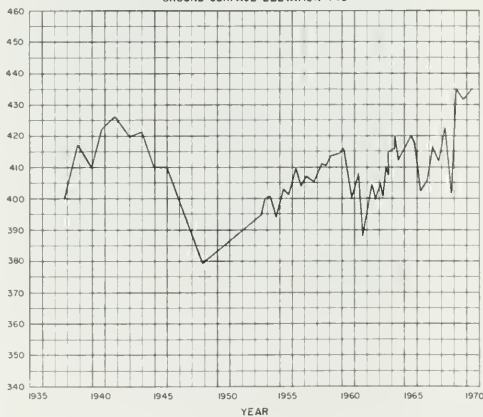


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

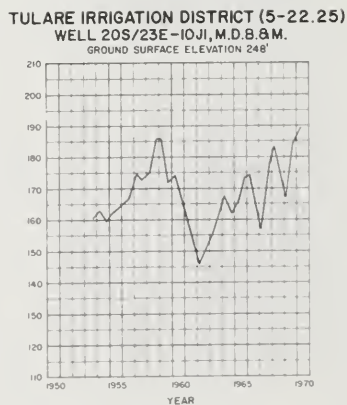
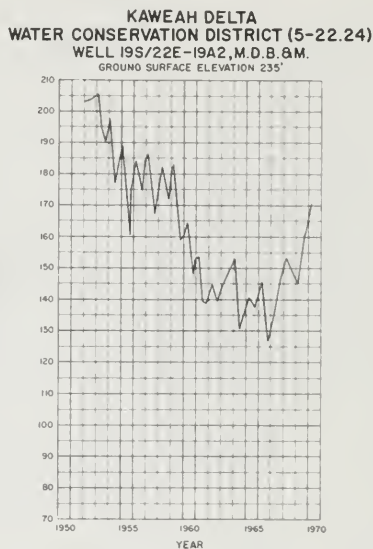
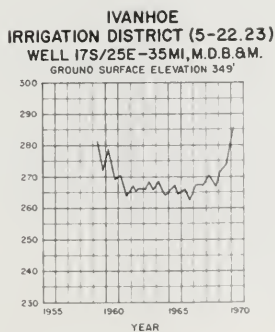
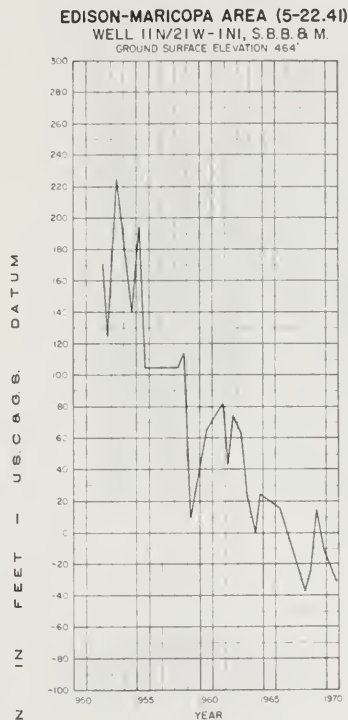


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

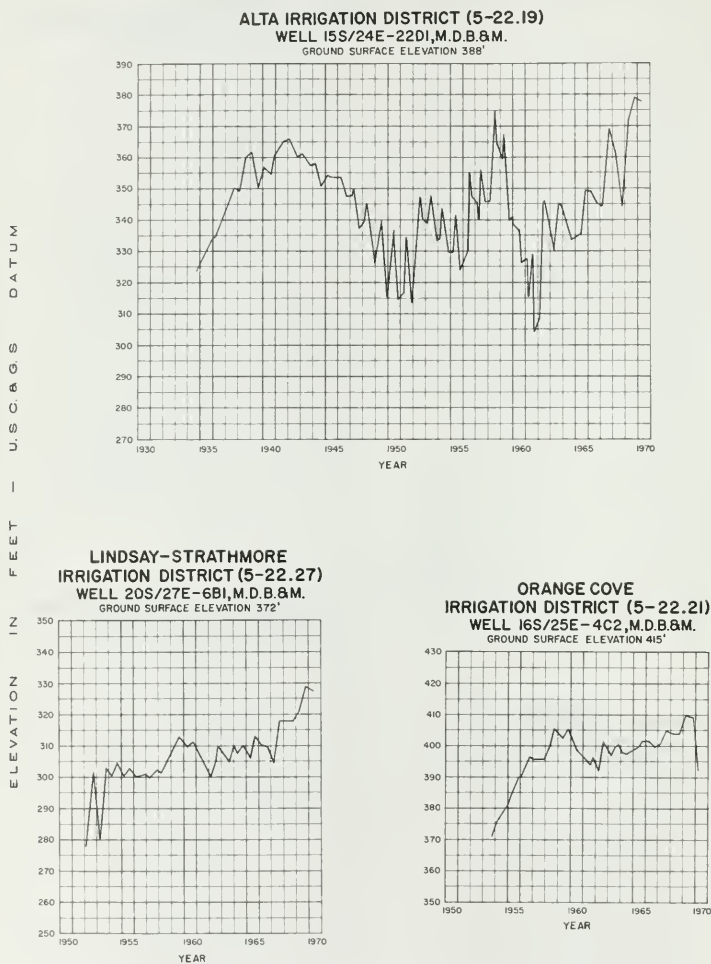


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

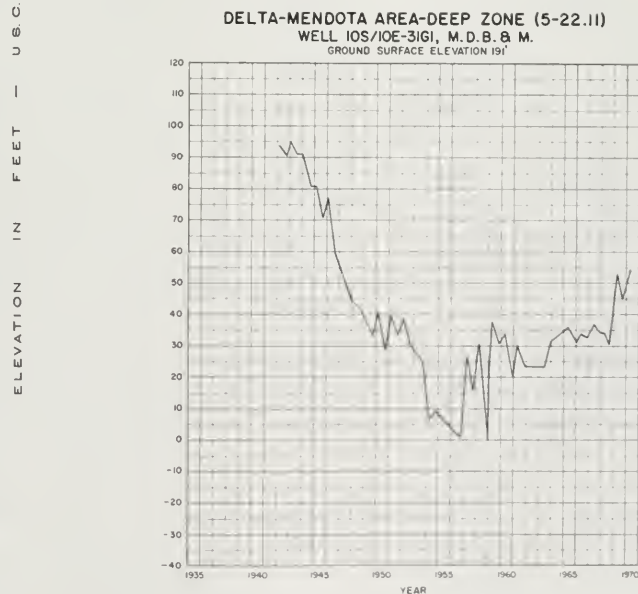
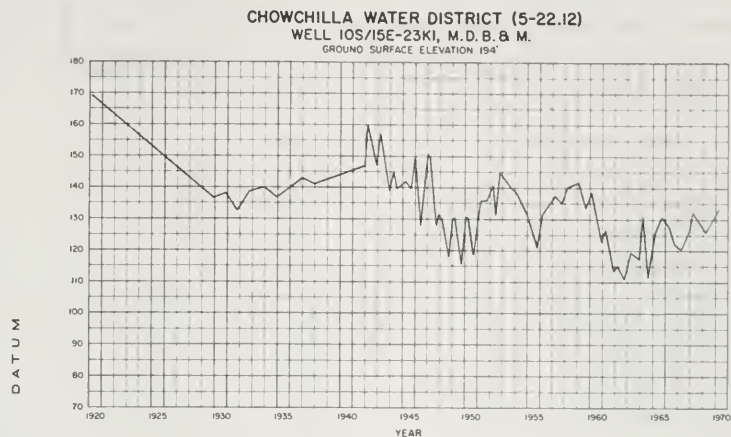


TABLE C-1
CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1969 - Spring 1970

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		- 0.2
Modesto Irrigation District	5-22.07		+ 0.9
Turlock Irrigation District	5-22.08		- 2.3
Merced Irrigation District	5-22.09		- 0.2
El Nido Irrigation District	5-22.10		+ 9.4
Delta-Mendota Area	5-22.11	320	+ 0.1
Chowchilla Water District	5-22.12		+ 6.7
Madera Irrigation District	5-22.13		+ 6.3
West Chowchilla-Madera Area	5-22.14		+ 4.6
Fresno Irrigation District	5-22.15		+ 4.3
City of Fresno	5-22.16	59	+ 3.2
Fresno Slough Area	5-22.17		+ 1.5
Consolidated Irrigation District	5-22.18		+ 6.9
Alta Irrigation District	5-22.19		+ 7.8
Lower Kings River Area	5-22.20		
Shallow Zone			+ 3.7
Deep Zone			+18.2
Orange Cove Irrigation District	5-22.21	92	+ 3.0
Stone Corral Irrigation District	5-22.22	10	+ 1.6
Ivanhoe Irrigation District	5-22.23		+12.9
Kaweah-Delta Water Conservation District	5-22.24		+14.3
Tulare Irrigation District	5-22.25		+16.2
Exeter Irrigation District	5-22.26		+10.4
Lindsay-Strathmore Irrigation District	5-22.27		+10.0
Lindmore Irrigation District	5-22.28		+12.5
Porterville Irrigation District	5-22.29		+ 7.6
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			+10.3
Deep Zone			+11.8
Vandalia Irrigation District	5-22.31	6	+ 2.4
Saucelito Irrigation District	5-22.32		
Shallow Zone			+17.0
Deep Zone			+14.6
Pixley Irrigation District	5-22.33		
Shallow Zone			+12.2
Deep Zone			+ 7.3

TABLE C-1 (Cont.)
CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1969 - Spring 1970

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			+ 0.6
Deep Zone			+ 4.0
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			+ 9.4
Deep Zone			+16.4
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			+ 8.6
Deep Zone			+13.9
North Kern Water Storage District	5-22.37		
Shallow Zone			+21.8
Deep Zone			- 7.8
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			- 8.0
Deep Zone			-11.0
City of Bakersfield	5-22.39	21	- 1.2
Kern River Delta Area	5-22.40		
Shallow Zone			+ 4.4
Deep Zone			+ 1.2
Edison-Maricopa Area	5-22.41		
Deep Zone			+ 6.0
Buena Vista Water Storage District	5-22.42		+ 1.3
Semitropic Water Storage District	5-22.43		
Shallow Zone			+ 3.2
Deep Zone			-13.0
Avenal-McKittrick Area	5-22.44	No measurements made spring 1969	
Tulare Lake-Lost Hills Area	5-22.45	Insufficient data to compute change	
Corcoran Irrigation District	5-22.46		
Shallow Zone			+ 1.2
Deep Zone			+31.1
Mendota-Huron Area	5-22.47		
Deep Zone			+43.3 ^{b/}
Poso Soil Conservation District	5-22.48		+ 1.0
San Luis Canal Company	5-22.49		- 2.9
Terra Bella Irrigation District	5-22.50	3	+ 1.9
Merced Bottoms	5-22.54		- 0.5
Centerville Bottoms Area	5-22.64		- 2.1
Garfield Water District	5-22.65	19	+ 5.9

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1969 - Spring 1970

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		

San Joaquin Valley (Continued)

Kings County Water District	5-22.66		
Shallow Zone			+ 9.2
Deep Zone			+17.9
Pleasant Valley Area	5-22.69	11	+ 0.2

^{a/} Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.

^{b/} Average change determined from water level measurements made during December 1968 and December 1969.

TABLE C-2
CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1970
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area*	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level ^{a/} 1921-51 ^{a/} in feet	Net change in water level ^{b/} 1951-70 ^{b/} in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 ^{c/}	- 12.6
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 13.4
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 11.1
Centerville Bottoms	18.1	-----	+ 1.0	+ 1.4
Alta	190.9	Alta Irrigation District	- 17.2 ^{c/}	+ 19.2
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 39.3
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 3.6
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	+ 3.7
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 15.1
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 14.3
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay- Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 76.5
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 41.1
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	+ 15.6 ^{e/} + 11.1 ^{f/}
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 13.3 ^{e/} - 50.5 ^{f/}
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 22.3 ^{e/} + 20.1 ^{f/}
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter- Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	+ 7.3 ^{e/} - 28.5 ^{f/}
Rosedale	78.9	-----	- 36.3	- 54.6 - 11.2 ^{g/}
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 ^{d/}	- 17.3 ^{f/}

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

b/ Fall 1951 to spring 1970.

c/ Fall 1929 to fall 1951.

d/ Fall 1941 to fall 1951.

e/ Unconfined aquifer, spring 1961 to spring 1970, only one aquifer reported prior to 1961.

f/ Pressure surface, spring 1961 to spring 1970, only one aquifer reported prior to 1961.

g/ Pressure surface, spring 1963 to spring 1970, only one aquifer reported prior to 1963.

* These areas are shown on Plate 3.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 139.

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT

- | | |
|-----------------------------|-----------------------------|
| 0. Measurement discontinued | 5. Unable to locate well |
| 1. Pumping | 6. Well has been destroyed |
| 2. Pump house locked | 7. Special |
| 3. Tape hung up | 8. Casing leaking or wet |
| 4. Can't get tape in casing | 9. Temporarily inaccessible |

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

<u>Agency Code</u>	<u>Agency</u>
5000	U. S. Geological Survey
5001	U. S. Bureau of Reclamation
5050	Department of Water Resources
5121	Kern County Water Agency
5129	Kings County Water District
5200	City of Fresno
5520	Oakdale Irrigation District
5521	Modesto Irrigation District
5524	Turlock Irrigation District
5525	Merced Irrigation District
5527	El Nido Irrigation District
5528	Chowchilla Water District
5529	Poso Soil Conservation District
5530	Madera Irrigation District
5602	Ivanhoe Irrigation District
5603	Kaweah Delta Water Conservation District
5605	Exeter Irrigation District
5606	Lindsay-Strathmore Irrigation District
5607	Lindmore Irrigation District
5608	Porterville Irrigation District
5609	Lower Tule Irrigation District
5611	Saucelito Irrigation District
5613	Delano-Earlimart Irrigation District
5614	South San Joaquin Municipal Utility District
5616	Shafter-Wasco Irrigation District
5626	Rag Gulch Water District
5631	Fresno Irrigation District
5636	Consolidated Irrigation District
5637	Alta Irrigation District
5640	Buena Vista Water Storage District
5644	Arvin-Edison Water Storage District

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL VALLEY REGION						MODESTO IRRIGATION DISTRICT					
SAN JOAQUIN VALLEY		5-22-00				3S/07E-35A02 M (Cont.)	40.0	5-4-70 6-08-70	4.8 4.8	35.2 35.2	5050
OAKDALE IRRIGATION DISTRICT						3S/08E-03A02 M	73.0	10-06-69 11-07-69 12-02-69 1-02-70 2-05-70 3-03-70 4-02-70 5-04-70 6-08-70	18.3 19.1 18.9 19.4 19.3 19.6 20.0 19.6 19.2	54.7 53.9 54.1 53.6 53.7 53.4 53.0 53.4 53.8	5050
1S/09E-16J01 M	119.0	10-01-69 10-31-69 12-01-69 1-02-70 2-02-70 3-02-70 3-31-70 5-01-70 5-29-70	63.0 61.8 61.6 61.4 61.3 61.1 61.1 63.0 63.3	56.0 57.2 57.4 57.6 57.7 57.9 57.9 56.0 55.7	5520	3S/08E-22C02 M	64.0	10-06-69 11-07-69 12-02-69 1-02-70 2-05-70 3-03-70 4-02-70 5-04-70 6-03-70	15.5 15.2 14.6 14.1 13.9 13.6 14.0 12.4 11.9	48.5 48.8 49.4 49.5 50.1 50.4 50.0 51.6 52.1	5050
1S/09E-36A01 M	145.0	3-00-70	51.2	93.8	5520	3S/08E-24C02 M	74.0	3-02-70	20.7	53.3	5521
1S/10E-19L01 M	146.5	10-01-69 10-31-69 12-01-69 1-02-70 2-02-70 3-02-70 3-31-70 5-01-70 5-29-70	53.3 53.1 53.4 53.5 53.7 53.8 53.6 54.3 54.2	93.2 93.4 93.1 93.0 92.8 92.7 92.9 92.2 92.3	5520	3S/09E-08D01 M	92.5	3-02-70	24.0	68.5	5521
1S/10E-28J01 M	193.0	3-00-70	82.7	110.3	5520	3S/09E-11M01 M	99.0	3-02-70	17.0	82.0	5521
2S/09E-26P01 M	132.0	10-01-69 10-31-69 12-01-69 1-02-70 2-02-70 3-02-70 3-31-70 5-01-70 5-29-70	51.5 50.6 51.1 50.7 49.5 50.1 NM-1 51.8	80.5 81.4 80.9 81.3 82.5 81.9 79.5 80.2	5520	3S/09E-21A01 M	99.2	3-02-70	NM-7		5521
2S/10E-04H01 M	185.5	10-01-69 10-31-69 12-01-69 1-02-70 2-02-70 3-02-70 3-31-70 5-01-70 5-29-70	77.5 76.2 75.8 75.6 75.6 75.7 76.0 77.0 78.3	108.0 109.3 109.7 109.9 109.9 109.8 109.5 107.9 107.2	5520	3S/09E-26P01 M	100.0	10-08-69 11-07-69 12-01-69 1-02-70 2-05-70 3-05-70 4-01-70 5-01-70 6-02-70	41.9 42.0 42.0 42.2 42.1 42.0 42.6 42.8 43.4	58.1 58.0 57.6 57.9 57.8 58.0 57.4 57.2 56.6	5050
2S/10E-33J01 M	165.0	3-00-70	56.7	108.3	5520	3S/10E-06G01 M	133.1	3-02-70	34.3	98.8	5521
2S/11E-29B01 M	218.0	10-01-69 10-31-69 12-01-69 1-02-70 2-02-70 3-02-70 3-31-70 5-01-70 5-29-70	94.7 94.5 91.4 90.5 89.3 89.3 90.4 91.4 91.8	123.3 125.5 126.6 127.5 128.0 128.7 127.6 126.6 126.2	5520	3S/10E-29K01 M	118.0	3-02-70	43.1	74.9	5521
2S/11E-31N01 M	192.0	3-00-70	72.4	119.6	5520	3S/10E-32D01 M	120.0	3-02-70	52.3	67.7	5521
2S/12E-31K01 M	190.0	3-00-70	41.5	148.5	5520	3S/10E-33E01 M	120.0	10-08-69 11-07-69 12-01-69 1-02-70 2-05-70 3-02-70 4-01-70 5-01-70 6-02-70	53.4 53.1 53.6 54.2 53.3 53.7 55.3 55.4 55.6	66.6 66.9 66.4 65.8 65.7 66.3 64.7 64.6 64.8	5050
3S/10E-15A01 M	152.0	10-01-69 10-31-69 12-01-69 1-02-70 2-02-70 3-02-70 3-31-70 5-01-70 5-29-70	46.7 44.6 44.2 44.0 43.9 43.8 44.1 44.6 44.2	105.3 107.4 107.8 108.0 108.1 108.2 107.9 107.4 107.8	5520	4S/08E-03P01 M	60.0	3-02-70	12.0	48.0	5521
3S/11E-18D01 M	162.0	3-00-70	52.0	110.0	5520	TURLOCK IRRIGATION DISTRICT					
MODESTO IRRIGATION DISTRICT						4S/08E-22R01 M	55.0	10-01-69 11-07-69 12-01-69 1-02-70 2-03-70 3-03-70 4-01-70 5-04-70 6-02-70	6.6 7.3 7.6 7.9 6.8 8.2 7.8 7.7 8.4	49.4 47.7 47.4 47.1 48.2 46.8 47.2 47.3 46.6	5050
2S/08E-25P01 M	94.0	3-02-70	30.3	63.7	5521	4S/08E-27D01 M	55.0	3-04-70	9.3	45.7	5524
2S/09E-30P01 M	93.0	10-06-69 11-07-69 12-02-69 1-02-70 2-05-70 3-03-70 4-02-70 5-04-70 6-08-70	24.9 25.3 27.0 26.8 24.6 24.7 21.7 20.1	68.1 67.7 66.0 66.2 68.4 68.3 71.3 72.9	5050	4S/09E-21N01 M	75.0	3-03-70	8.7	66.3	5524
2S/09E-31D01 M	100.3	3-02-70	27.2	73.1	5521	4S/10E-21R01 M	109.0	3-03-70	5.1	103.9	5524
3S/07E-12C01 M	47.0	10-06-69 11-07-69 12-02-69 1-02-70 2-05-70 3-03-70 4-02-70 5-04-70 6-08-70	6.3 8.1 8.7 9.4 7.8 7.6 5.4 5.3 4.2	40.7 38.9 38.3 37.6 39.2 39.4 41.6 41.7 42.8	5050	4S/11E-31R01 M	128.0	3-03-70	11.5	116.5	5524
3S/07E-35A02 M	40.0	10-06-69 11-07-69 12-02-69 1-02-70 2-05-70 3-03-70 4-02-70	3.5 3.3 3.4 6.1 4.9 5.6 4.9	36.5 36.7 34.6 33.9 35.1 34.4 35.1	5050	5S/08E-01N01 M	53.0	3-03-70	6.7	46.3	5524
						5S/08E-10A01 M	44.0	3-03-70	12.1	31.9	5524
						5S/09E-04A01 M	70.0	10-06-69 11-07-69 12-02-69 1-02-70 2-05-70 3-03-70 4-02-70 5-04-70 6-08-70	6.4 4.6 5.4 7.1 7.0 7.9 7.5 3.9 4.5	63.6 65.4 64.6 62.7 63.0 62.1 62.5 66.1 65.5	5050
						5S/09E-14R01 M	75.0	3-03-70	5.3	69.7	5524
						5S/09E-24N01 M	75.0	3-03-70	4.9	70.1	5524
						5S/09E-28A01 M	63.0	3-03-70	8.6	54.4	5524
						5S/09E-34J01 M	64.0	10-06-69 11-07-69 12-02-69 1-02-70 2-05-70 3-03-70 4-02-70 5-04-70 6-08-70	11.5 5.9 6.6 6.2 11.6 14.2 13.4 15.7 13.2	52.5 52.1 57.4 57.8 52.4 49.8 50.6 51.3 50.8	5050

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TURLOCK IRRIGATION DISTRICT (Cont.) 5-22-08						EL NIDO IRRIGATION DISTRICT 5-22-10					
5S/10E-19801 M	82.0	3-02-70	4.8	77.2	5524	9S/13E-14H01 M	133.0	2-00-70	68.0	65.0	5527
5S/10E-21801 M	92.0	3-02-70	7.4	84.6	5524	9S/14E-20B01 M	152.0	2-00-70	56.0	96.0	5527
5S/11E-06J02 M	124.0	10-06-69 11-07-69 12-03-69 1-05-70 2-03-70 3-04-70 4-06-70 5-04-70 6-02-70	9.4 5.8 5.6 5.9 6.2 7.8 8.6 9.9 9.8	114.6 118.2 118.4 118.1 117.8 116.2 115.4 114.1 114.2	5050	DELTA-MENDOTA AREA 5-22-11					
5S/11E-21N01 M	125.0	3-02-70	8.2	116.8	5524	4S/06E-09R01 M	166.3	10-14-69 3-11-70	129.5 111.0	36.8 55.3	5001
5S/11E-30A01 M	117.0	3-02-70	12.7	104.3	5524	4S/07E-27M01 M	73.0	10-14-69 3-17-70	21.9 22.8	51.1 50.2	5001
5S/11E-33N01 M	115.5	3-02-70	7.1	108.4	5524	5S/07E-13K01 M	107.0	10-14-69	NM-0		5001
6S/09E-15R01 M	60.0	3-03-70	NM-7		5524	5S/07E-14D01 M	130.4	3-18-70	75.7	54.7	5001
6S/10E-21A01 M	85.6	3-02-70	4.8	80.8	5524	5S/07E-23L01 M	138.0	10-00-69	NM-0		5050
6S/10E-28D01 M	83.6	3-02-70	10.5	73.1	5524	5S/08E-32K01 M	90.9	10-20-69 3-18-70	6.2 7.5	84.7 83.4	5001
6S/11E-06N01 M	106.2	3-02-70	10.0	96.2	5524	6S/07E-12F01 M	248.3	10-10-69	11.9	236.4	5050
6S/11E-08R01 M	116.2	3-02-70	11.4	104.8	5524	6S/08E-10N02 M	80.0	3-00-70	NM-7		5050
MERCED IRRIGATION DISTRICT 5-22-09						6S/08E-16M01 M	129.5	10-10-69	55.9	73.6	5050
6S/12E-22N01 M	150.0	10-01-69 11-03-69 12-01-69 1-05-70 2-02-70 3-05-70 4-01-70 5-04-70 6-03-70	20.1 20.2 19.9 18.1 18.0 16.1 18.8 19.0 19.3	129.9 129.8 130.1 131.9 132.0 133.9 131.2 131.0 130.7	5050	6S/08E-21R02 M	133.0	10-00-69	NM-0		5050
6S/14E-32N01 M	178.3	3-00-70	12.6	165.7	5525	6S/08E-27J01 M	114.5	10-10-69 3-11-70	41.6 39.4	72.9 75.1	5050
7S/10E-01N01 M	90.5	3-00-70	8.2	82.3	5525	6S/08E-29J01 M	190.0	3-11-70	NM-4		5050
7S/11E-01H01 M	118.0	10-01-69 11-03-69 12-01-69 1-05-70 2-02-70 3-05-70 4-01-70 5-04-70 6-03-70	13.0 13.2 11.2 11.3 11.0 10.7 10.8 10.5 10.3	105.0 104.8 106.8 106.7 107.0 107.8 108.5 109.0 107.7	5050	7S/08E-22L01 M	127.9	10-16-69	48.2	79.7	5050
7S/11E-13N01 M	106.6	3-00-70	4.3	102.3	5525	7S/09E-04R01 M	65.6	10-16-69	18.3	47.3	5050
7S/12E-12001 M	144.0	10-01-69 11-03-69 12-01-69 1-05-70 2-02-70 3-05-70 4-01-70 5-04-70 6-03-70	9.3 10.3 10.7 11.3 11.2 11.3 11.3 11.5 11.1	134.7 133.7 133.3 132.7 132.8 132.7 132.7 134.3 132.9	5050	7S/09E-26N01 M	68.4	10-14-69	6.7	61.7	5050
7S/12E-12R01 M	147.5	3-00-70	14.1	133.4	5525	8S/08E-01N01 M	123.2	10-16-69 3-18-70	16.0 22.7	107.2 100.5	5050
7S/13E-16N01 M	152.1	3-00-70	11.5	140.6	5525	8S/08E-15J01 M	172.8	3-18-70	NM-7		5050
7S/13E-26D01 M	155.8	10-01-69 11-03-69 12-01-69 1-05-70 2-02-70 3-05-70 4-01-70 5-04-70 6-03-70	8.9 9.4 9.7 10.8 10.3 7.2 9.4 8.4 8.3	146.9 146.4 146.1 145.0 145.5 148.6 146.4 147.4 147.5	5050	8S/08E-26H01 M	75.0	10-14-69 3-13-70	27.4 10.0	45.0 67.6	5050
7S/14E-11N01 M	192.0	10-01-69 11-03-69 12-01-69 1-05-70 2-02-70 3-05-70 4-01-70 5-04-70 6-03-70	12.1 12.7 13.2 13.9 13.8 12.2 13.3 12.3 12.3	179.9 179.3 178.6 178.1 178.2 179.8 178.7 179.7 179.7	5050	8S/09E-26H03 M	75.0	10-14-69 3-13-70	5.1 0.7	69.9 74.3	5050
7S/14E-16R01 M	187.0	3-00-70	17.3	173.7	5525	8S/10E-21L04 M	75.0	10-14-69	6.2	68.8	5050
8S/12E-01D01 M	120.0	3-00-70	4.5	115.5	5525	9S/08E-24A01 M	157.0	3-12-70	NM-4		5050
8S/13E-09R01 M	135.0	3-00-70	4.8	130.2	5525	9S/09E-14N01 M	96.0	10-00-69	NM-0		5050
8S/14E-01A01 M	197.2	3-00-70	9.4	187.8	5525	9S/09E-18N01 M	153.6	10-15-69	26.7	126.9	5050
8S/14E-10N01 M	172.6	10-01-69 11-03-69 12-01-69 1-05-70 2-02-70 3-05-70 4-01-70 5-04-70 6-03-70	5.4 6.7 7.9 8.7 7.2 7.2 6.5 5.7 5.2	167.2 165.9 164.7 163.9 165.4 165.4 166.1 166.9 167.4	5050	9S/09E-23L01 M	100.0	10-15-69 3-12-70	46.1 36.2	53.9 63.8	5050
						9S/10E-19B01 M	84.0	10-14-69	2.4	81.6	5050
						9S/10E-23J01 M	87.0	3-13-70	30.8	56.2	5050
						9S/11E-16H01 M	91.0	10-08-69	8.5	82.5	5050
						9S/12E-20J01 M	90.5	10-08-69 3-13-70	42.1 43.8	48.4 46.7	5050
						10S/09E-06A01 M	147.0	10-06-69 3-16-70	8.8 9.7	139.2 137.3	5050
						10S/09E-08B01 M	167.0	10-06-69 3-16-70	76.4 75.2	90.6 91.8	5050
						10S/10E-02R01 M	99.5	10-06-69 3-14-70	21.0 19.2	78.5 84.3	5050
						10S/10E-11R01 M	106.6	10-06-69	21.9	84.7	5050
						10S/10E-31Q01 M	191.1	10-00-69	NM-0		5050
						10S/10E-32N01 M	189.5	10-06-69	141.3	48.2	5050
						10S/11E-27E02 M	101.3	10-07-69 3-13-70	49.5 48.0	51.8 53.3	5050
						11S/10E-11J01 M	157.3	10-07-69 3-12-70	53.0 55.0	104.3 102.3	5050
						11S/10E-22Q01 M	246.8	10-03-69	111.7	135.1	5050
						11S/11E-02J02 M	106.0	10-02-69	3.7	102.3	5050
						11S/11E-22K01 M	114.2	10-02-69	NM-6		5050
						11S/11E-22Q03 M	114.0	10-02-69	13.7	100.3	5050
						11S/12E-31C01 M	132.0	10-02-69	25.7	106.3	5050
						12S/12E-06D01 M	144.0	10-03-69 2-27-70	5.1 3.7	138.9 140.3	5001
						12S/12E-25D01 M	177.0	10-07-69 3-04-70	59.6 58.1	117.4 118.9	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA (cont.)						MADERA IRRIGATION DISTRICT					
		5-22-11						5-22-13			
12S/17E-25002 M	177.0	10-07-69 3-04-70	7.6 6.0	169.4 171.0	5001	11S/16E-10N01 M (Cont.)	204.0	12-31-69 1-02-70	54.6 NM-0	149.4 207.3	5001
12S/13E-10N01 M	144.0	10-00-65	NM-7		5001	11S/17E-27C01 M	250.6	2-05-70	71.3	179.3	5530
CHOWCHILLA WATER DISTRICT						11S/18E-20N01 M	272.5	2-02-70	77.1	195.4	5530
		5-22-12				11S/18E-27M01 M	284.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	77.3 76.7 75.1 76.0 80.2 81.5 80.4 81.3	206.7 207.3 208.9 208.0 203.8 202.5 203.6 202.7	5001
9S/14E-25R01 M	184.0	2-13-70	55.0	129.0	5528	12S/16E-23A01 M	205.4	2-04-70	70.2	135.2	5530
9S/15E-25J02 M	230.0	2-14-70	39.5	190.5	5528	12S/17E-08Q01 M	230.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	79.7 75.9 73.8 72.8 72.5 74.9 76.5 77.5	150.3 154.1 156.2 157.2 157.5 155.1 153.5 152.5	5001
9S/15E-27A01 M	216.5	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	NM-1 92.2 93.9 88.0 86.3 83.0 NM-1 NM-1	124.3 122.6 128.5 130.2 133.5	5001	12S/17E-21M01 M	228.0	2-04-70	48.4	179.6	5530
9S/16E-22R01 M	267.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	40.4 40.0 39.0 39.0 39.0 38.8 39.5 39.2	226.6 227.0 228.0 228.0 227.5 227.8	5001	12S/17E-26C01 M	235.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	57.7 55.2 55.3 54.7 55.3 60.3 60.8 62.0	177.3 179.8 179.3 180.3 179.7 174.7 174.2 173.0	5001
9S/17E-19L01 M	292.0	2-12-70	90.1	201.9	5528	12S/17E-34R01 M	234.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	50.4 48.4 48.1 48.2 48.0 51.1 50.1 50.6	183.6 185.6 185.9 185.6 186.0 182.9 183.4	5001
9S/17E-35J01 M	320.0	10-07-69 2-12-70	88.0 88.0	232.0 232.0	5001	12S/18E-13R01 M	288.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	76.6 76.3 76.0 75.0 74.1 77.1 77.7	211.4 211.7 212.0 212.4 213.0 210.9 210.3	5001
9S/18E-33Q01 M	362.0	10-07-69 2-12-70	52.6 55.2	309.4 306.8	5001	12S/18E-21M01 M	265.0	2-03-70	65.2	199.8	5530
10S/14E-01A01 M	179.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	73.4 72.0 74.6 67.0 67.4 64.7 NM-1 NM-1	105.6 107.0 104.4 112.0 111.6 109.3	5001	12S/18E-21M01 M	267.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	67.9 65.7 65.7 64.8 64.0 66.1 66.6 67.9	199.1 201.3 201.3 202.2 203.0 200.9 200.4 199.1	5001
10S/14E-01R02 M	177.0	2-12-70	57.2	119.8	5528	12S/19E-26A01 M	307.0	10-02-69 2-03-70	82.6 85.4	224.4 221.6	5001
10S/14E-24R01 M	167.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	78.5 79.2 79.0 65.7 67.4 70.0 NM-1 82.7	88.5 87.8 95.0 101.3 99.6 97.0 84.3	5001	WEST CHOWCHILLA-MADERA AREA					
10S/15E-02Q01 M	212.5	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	85.5 77.0 75.9 70.5 68.5 72.2 79.5 98.0	127.0 135.5 136.6 142.0 144.0 140.3 133.0 114.5	5001	10S/13E-22R01 M	114.0	10-07-69 2-03-70	15.6 13.6	107.4 105.4	5001
10S/15E-23K01 M	195.5	2-13-70	61.7	133.8	5528	10S/14E-08B03 M	147.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	78.2 73.7 74.7 69.5 68.5 67.5 75.7 69.3	68.8 73.3 72.3 77.5 78.2 79.5 71.3 77.7	5001
10S/15E-27D03 M	184.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	69.3 69.7 67.5 64.7 66.0 61.3 NM-1 NM-1	114.7 114.3 116.5 119.3 118.0 120.7	5001	10S/14E-31M01 M	130.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	35.6 36.4 25.0 27.7 31.2 35.6 27.0 32.6	94.4 93.6 105.0 102.3 98.8 94.4 103.0 97.4	5001
10S/16E-09E01 M	232.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	76.6 74.2 76.5 71.7 70.6 71.7 77.2 NM-1	155.4 157.8 155.5 160.3 161.4 160.3 154.8	5001	MADERA IRRIGATION DISTRICT					
10S/16E-29R01 M	208.0	2-11-70	60.6	147.4	5528			5-22-13			
10S/18E-20B01 M	326.0	10-02-69 2-11-70	72.9 70.6	253.1 255.4	5001	10S/18E-20B01 M	326.0	10-02-69 2-11-70	72.9 70.6	253.1 255.4	5001
10S/19E-16D01 M	387.0	10-02-69 2-12-70	19.2 21.2	367.8 365.8	5001	10S/19E-16D01 M	387.0	10-02-69 2-12-70	19.2 21.2	367.8 365.8	5001
11S/16E-06A01 M	196.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	63.6 61.0 58.4 56.6 56.7 58.4 57.7 58.4	132.4 137.0 137.6 139.4 139.3 137.6 138.3 137.6	5001	11S/16E-10N01 M	204.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	56.1 55.6 57.4 57.7 57.4 57.4 57.4 57.4	147.9 148.4	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
WEST CHOCOMILLA-MADERA AREA						PRESNO IRRIGATION DISTRICT					
5-22.14						5-22.15					
115/14E-13R01 M (Cont.)	150.0	4-21-70 5-28-70	NM-1 NM-1		5001	14S/18E-08J01 M (Cont.)	227.4	2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	53.6 59.3 62.7 61.1 NM-1	173.8 168.1 164.7 166.3	5631
11S/15E-33E01 M	156.0	2-06-70	38.4	117.6	5001	14S/19E-20B02 M	245.0	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	50.1 43.6 48.5 48.0 47.4 48.9 46.9 46.9	194.9 196.4 195.5 197.0 197.6 195.1 198.1 198.1	5631
11S/15E-33F01 M	158.0	10-24-69 11-20-69 12-24-69 2-04-70 2-26-70 3-26-70 4-21-70 5-28-70	47.6 37.5 36.5 34.7 68.5 68.5 60.5 79.9	110.4 120.5 121.5 123.3 130.5 89.5 97.5 87.1	5001	14S/20E-06J01 M	279.4	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	63.2 63.2 63.2 61.5 60.5 63.5 58.7 63.8	216.2 216.2 216.2 217.9 218.9 215.9 220.7 215.6	5631
12S/15E-14L01 M	165.1	2-05-70	45.3	119.8	5001	14S/20E-13E02 M	282.5	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	32.2 30.3 30.5 30.1 30.3 30.5 25.4 25.4	250.3 250.2 252.0 252.4 252.2 252.2 257.7 257.1	5631
13S/16E-02C01 M	194.0	10-30-69 11-28-69 12-31-69 1-02-70	69.2 67.6 59.3 NM-0	124.8 126.4 134.7	5001	CITY OF PRESNO					
PRESNO IRRIGATION DISTRICT						5-22.16					
12S/20E-14A01 M	365.0	10-03-69 2-13-70	97.3 91.2	267.7 273.8	5001	13S/20E-21J01 M	310.0	3-01-70	96.0	214.0	5200
12S/21E-34D01 M	387.7	10-31-69 11-28-69 12-28-69 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	42.4 41.1 40.3 39.3 37.4 35.0 38.7 42.8	345.3 346.6 347.4 348.4 350.3 348.7 349.0 344.9	5631	13S/20E-23B01 M	325.0	10-02-69 10-30-69 12-01-69 12-31-69 1-29-70 2-26-70 3-26-70 5-00-70	94.7 93.0 92.0 91.1 91.3 90.3 90.3 NM-7	230.3 232.0 233.0 233.9 233.7 234.7 234.7	5200
12S/22E-21E01 M	473.0	10-03-69 2-12-70	20.6 15.7	452.4 457.3	5001	13S/20E-28E01 M	299.3	10-02-69 10-30-69 12-01-69 12-31-69 1-29-70 2-26-70 3-27-70 5-00-70	91.7 90.0 88.2 87.3 86.0 85.3 85.4 NM-7	207.6 209.0 211.1 212.0 213.3 214.0 213.9	5200
13S/17E-22B01 M	220.8	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	32.1 33.0 33.4 33.4 35.1 36.6 33.0 30.9	188.7 187.8 187.4 187.4 185.7 184.2 187.8 189.9	5631	13S/20E-35H02 M	305.3	10-02-69 10-30-69 12-01-69 12-31-69 1-29-70 2-27-70 3-30-70 5-00-70	87.2 85.7 82.6 81.3 83.2 81.8 80.8 NM-7	218.1 219.6 222.7 224.0 222.1 223.5 224.5	5200
13S/17E-33D01 M	211.0	10-22-69 11-19-69 12-27-69 2-02-70 2-24-70 3-24-70 4-22-70 5-23-70	50.5 50.3 47.2 47.5 48.7 50.3 52.6 52.0	160.5 160.7 163.8 163.5 162.3 160.7 168.4 159.0	5001	14S/20E-10M01 M	291.4	10-02-69 10-30-69 12-01-69 1-28-70 2-25-70 3-30-70 5-00-70	83.9 80.5 78.8 75.0 74.7 73.4 72.5 NM-7	207.5 210.9 212.6 215.4 216.7 218.0 218.9	5200
13S/18E-10P01 M	258.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	48.8 50.4 49.9 50.1 51.2 50.9 52.7 53.1	209.2 207.6 208.1 207.9 206.8 207.1 205.3 204.9	5001	PRESNO SLOUGH AREA					
13S/18E-16D01 M	253.0	10-02-69 2-11-70	47.8 49.2	205.2 203.8	5001	5-22.17					
13S/18E-34D01 M	245.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	57.8 52.5 50.7 54.5 53.3 53.5 54.2 52.5	192.2 192.5 194.3 190.5 191.7 191.5 190.8 192.5	5001	13S/15E-28H01 M	162.0	2-04-70	25.6	135.4	5001
13S/19E-09Q01 M	288.2	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	65.1 65.0 64.1 62.8 62.7 64.0 64.4 64.0	223.1 233.2 224.1 225.4 225.5 224.2 223.8 224.2	5631	14S/15E-25H02 M	160.0	10-22-69 11-19-69 12-22-69 1-02-70	25.6 25.5 25.2 NM-0	134.4 134.5 134.8	5001
13S/19E-16K01 M	290.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	75.8 79.0 77.7 76.7 78.2 79.7 82.0 80.9	214.2 211.0 212.3 213.3 211.8 210.3 208.0 209.1	5001	14S/16E-03C01 M	177.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	61.0 56.6 53.8 42.8 44.2 47.5 42.8 NM-1	116.0 120.4 123.2 134.2 132.8 129.5	5001
13S/20E-02L01 M	339.0	10-31-69 11-28-69 12-28-69 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	98.6 91.1 90.8 90.3 90.2 88.9 91.7 90.9	240.4 247.9 248.2 248.7 248.8 250.1 247.3 248.1	5631	14S/16E-08D01 M	165.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 4-22-70 5-22-70	49.2 40.0 27.0 32.8 27.5 NM-9 NM-1	115.8 125.0 138.0 132.2 137.5	5001
13S/23E-31F01 M	406.5	3-00-70	23.3	383.2	5631	14S/16E-22N01 M	164.0	10-07-69 2-09-70	26.8 23.3	137.2 140.7	5001
14S/18E-08J01 M	227.4	10-31-69 11-28-69 1-02-70	62.8 59.9 59.6	164.6 167.5 167.8	5631	14S/17E-25A01 M	210.0	10-07-69 2-05-70	100.2 89.3	109.8 120.7	5001
						15S/16E-01L01 M	171.0	10-03-69	NM-0		5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PRESNO SLOUGH AREA (Cont.)						CONSOLIDATED IRRIGATION DISTRICT					
5-22-17						5-22-18					
158/162-12C03 M	169.5	10-22-69	25.5	144.0	5001	158/22E-16A01 M	337.0	5-01-70	21.5	315.5	5636
		11-12-69	25.2	144.3		(Cont.)		6-01-70	21.1	315.9	
		12-22-69	25.5	144.0		158/22E-29D01 M	321.9	10-01-69	23.0	298.9	5636
		2-02-70	25.5	144.0				11-03-69	22.4	298.9	
		2-24-70	26.5	142.6				12-01-69	21.5	300.4	
		3-24-70	27.9	141.6				1-02-70	20.9	301.0	
		4-22-70	28.5	141.0				2-02-70	20.7	301.2	
		5-22-70	27.9	141.6				3-02-70	20.4	301.5	
158/17E-22R01 M	186.0	2-06-70	90.8	95.2	5001			3-31-70	21.4	300.5	
158/17E-35N02 M	182.0	10-22-69	65.5	116.5	5001			5-01-70	23.3	298.6	
		11-19-69	67.0	115.0				6-01-70	23.0	298.9	
		12-22-69	67.0	115.0		168/19E-14A01 M	235.5	10-01-69	96.6	138.9	5636
		2-02-70	75.2	106.8				11-03-69	92.4	143.1	
		2-24-70	70.0	112.0				12-01-69	88.8	146.7	
		3-24-70	78.0	104.0				1-02-70	85.4	149.1	
		4-22-70	74.8	107.2				2-02-70	85.0	150.5	
		5-22-70	75.9	106.1				3-02-70	86.5	149.0	
158/19E-07A02 M	204.0	10-22-69	113.7	90.3	5001			3-31-70	95.9	137.5	
		11-19-69	112.0	92.0				5-01-70	98.0	139.8	
		12-22-69	108.0	92.0		168/20E-22N01 M	247.7	10-01-69	55.0	192.7	5636
		2-02-70	101.9	100.1				11-03-69	53.4	194.3	
		2-24-70	104.2	99.8				12-01-69	52.6	195.1	
		3-24-70	110.7	93.3				1-02-70	51.7	196.0	
		4-22-70	114.0	90.0				2-02-70	50.5	197.2	
		5-22-70	111.0	93.0				3-02-70	48.8	198.9	
158/18E-16R01 M	205.8	2-11-70	107.1	98.7	5001			3-31-70	48.8	199.6	
168/17E-23N01 M	185.0	2-00-70	NM-7		5001			5-01-70	51.0	196.7	
168/18E-03J01 M	206.0	10-02-69	NM-1		5050			6-01-70	53.0	194.7	
		10-31-69	131.7	74.3		168/21E-22N01 M	271.0	10-01-69	41.2	229.8	5636
		11-28-69	125.0	81.0				11-03-69	37.4	233.6	
		1-06-70	125.0	83.0				12-01-69	36.1	234.9	
		2-03-70	122.2	83.8				1-02-70	35.0	236.0	
		3-09-70	122.5	83.5				2-02-70	33.8	237.2	
		4-06-70	NM-1					3-02-70	33.8	237.2	
		5-05-70	126.9	79.1				3-31-70	37.0	234.0	
		6-05-70	NM-1					5-01-70	39.3	231.7	
								6-01-70	41.0	230.0	
168/18E-27C01 M	198.0	3-03-70	115.5	82.5	5050	168/22E-23R01 M	297.5	10-01-69	19.6	277.9	5636
168/19E-34P01 M	220.0	10-02-69	125.8	94.2	5050			11-03-69	19.1	278.4	
		10-31-69	118.0	102.0				12-01-69	18.1	279.4	
		11-28-69	102.5	117.5				1-02-70	17.0	279.5	
		1-06-70	98.5	121.5				2-02-70	18.0	279.6	
		2-03-70	96.0	123.4				3-02-70	17.7	279.8	
		3-09-70	96.7	123.3				3-31-70	17.8	279.9	
		4-06-70	111.2	108.8				5-01-70	19.8	277.7	
		5-05-70	113.0	107.0				6-01-70	20.6	276.9	
		6-05-70	113.5	106.5		178/22E-03C01 M	286.0	10-01-69	14.0	272.0	5636
178/17E-12H01 M	199.0	2-00-70	NM-7		5050			11-03-69	14.4	271.6	
178/18E-23A02 M	200.0	3-04-70	60.5	139.5	5050			12-01-69	14.5	271.5	
CONSOLIDATED IRRIGATION DISTRICT								1-02-70	15.0	271.0	
5-22-18								2-02-70	15.3	270.7	
148/22E-22N01 M	355.7	10-01-69	24.3	331.4	5636			3-02-70	15.4	270.6	
		11-03-69	23.5	332.2				3-31-70	16.1	269.9	
		12-01-69	23.4	332.3				5-01-70	18.6	267.4	
		1-02-70	23.1	332.6				6-01-70	17.3	268.7	
		2-02-70	22.5	333.2		ALTA IRRIGATION DISTRICT					
		3-02-70	22.4	333.3		5-22-19					
		3-31-70	22.3	333.4		148/23E-36R01 M	391.0	10-29-69	30.6	360.4	5637
		5-01-70	22.6	333.1				11-26-69	30.4	360.6	
		6-01-70	22.7	333.0				12-30-69	33.6	357.4	
158/19E-24N01 M	246.6	10-01-69	77.9	168.7	5636			1-29-70	36.0	365.0	
		11-03-69	75.1	171.5				3-05-70	33.4	357.6	
		12-01-69	72.9	173.7				4-03-70	39.4	351.6	
		1-02-70	71.2	175.4				5-04-70	34.3	343.9	
		2-02-70	70.1	176.5				6-03-70	39.0	351.1	
		3-02-70	68.9	177.7		148/24E-31P01 M	395.0	3-05-70	24.8	370.2	5637
		3-31-70	77.3	168.7				10-29-69	29.0	329.0	5637
		5-01-70	75.8	170.8				11-26-69	27.2	333.8	
		6-01-70	80.0	166.6				12-30-69	28.4	329.6	
158/20E-23A01 M	264.8	10-01-69	50.4	214.4	5636			1-29-70	27.7	330.3	
		11-03-69	50.1	214.7				3-04-70	29.4	328.6	
		12-01-69	49.6	215.2				4-03-70	32.1	325.9	
		1-02-70	48.3	216.5				5-04-70	40.5	317.5	
		2-02-70	47.7	217.1				6-03-70	38.4	319.5	
		3-02-70	47.1	217.7		158/24E-22D01 M	398.0	10-30-69	9.7	378.3	5637
		3-31-70	50.4	214.4				11-26-69	10.1	377.9	
		5-01-70	52.3	212.5				12-31-69	11.2	376.8	
		6-01-70	52.0	212.8				1-30-70	10.5	377.5	
158/21E-15D01 M	301.2	10-01-69	26.6	274.6	5636			3-05-70	10.2	377.8	
		11-03-69	25.4	275.8				4-04-70	11.5	376.5	
		12-01-69	24.4	276.8				5-05-70	16.5	371.5	
		1-02-70	23.6	277.6				6-04-70	10.9	377.1	
		2-02-70	22.9	278.3		168/23E-23R01 M	314.0	10-29-69	15.3	298.7	5637
		3-02-70	22.4	279.5				11-26-69	14.8	299.2	
		3-31-70	22.4	279.8				12-24-69	15.0	299.8	
		5-01-70	23.5	277.7				1-27-70	15.2	298.8	
		6-01-70	24.0	277.2				3-02-70	15.0	299.0	
158/22E-16A01 M	337.0	10-01-69	21.6	315.4	5636			4-02-70	15.6	299.4	
		11-03-69	20.9	316.1				5-01-70	17.4	296.6	
		12-01-69	20.3	316.7				6-02-70	16.9	297.1	
		1-02-70	19.9	317.1		168/24E-21J01 M	336.0	10-29-69	17.8	318.2	5637
		2-02-70	19.5	317.5				11-24-69	17.7	318.3	
		3-02-70	19.3	317.7				12-27-69	17.1	318.9	
		3-31-70	20.4	316.6				1-28-70	17.2	318.9	
								3-03-70	16.8	319.2	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALTA IRRIGATION DISTRICT						ORANGE COVE IRRIGATION DISTRICT					
5-22-19						5-22-21					
16S/24E-21J01 M (Cont.)	336.0	4-01-70 5-02-70 6-01-70	17.3 20.7 19.4	318.7 315.3 316.6	5637	15S/24E-14D01 M (Cont.)	405.0	3-03-70 4-02-70 5-01-70 6-03-70	4.7 4.6 8.6 12.2	400.3 400.4 396.4 392.8	5001
16S/25E-29A01 M	364.0	10-29-69 11-24-69 12-27-69 1-08-70 3-03-70 4-01-70 5-02-70 6-01-70	14.2 14.5 15.8 13.8 13.9 16.2 22.4 17.7	349.8 349.5 348.5 350.2 350.1 347.8 342.6 346.3	5637	16S/25E-04C02 M	415.0	10-02-69 11-04-69 12-03-69 1-02-70 2-02-70 3-03-70 4-03-70 5-04-70 6-04-70	6.8 7.6 8.6 8.8 7.5 7.3 7.1 7.4 7.5	408.2 407.4 406.4 406.2 407.5 407.7 407.9 407.6 407.5	5001
17S/22E-25A01 M	276.0	10-28-69 11-25-69 12-29-69 1-27-70 3-02-70 4-02-70 5-01-70 6-02-70	29.4 27.9 26.7 25.8 26.6 28.5 30.0 NM-1	246.6 248.1 249.3 250.2 249.4 247.5 246.0	5637	STONE CORRAL IRRIGATION DISTRICT					
						5-22-22					
17S/22E-25J01 M	275.0	10-28-69 11-25-69 12-29-69 1-27-70 3-02-70 4-02-70 5-01-70 6-02-70	31.5 29.5 28.2 27.8 28.0 28.9 30.1 NM-1	243.5 245.5 246.5 247.2 247.0 246.1 244.9	5637	17S/25E-01D01 M	355.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	NM-7 22.3 22.6 20.2 20.0 20.9 20.5 21.7	332.7 332.4 334.8 335.0 334.1 334.5 333.3	5001
17S/25E-10C01 M	335.0	3-03-70 9-30-70	25.0 28.6	310.0 306.4	5637	17S/26E-07R01 M	364.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	8.6 5.6 5.1 4.0 3.3 2.0 3.2 3.8	355.4 358.4 358.9 360.0 360.7 362.0 360.8 360.2	5001
17S/25E-18R01 M	321.0	3-03-70 9-30-70	46.7 53.7	274.3 267.3	5637	IVANHOE IRRIGATION DISTRICT					
						5-22-23					
LOWER KINGS RIVER AREA						5-22-20					
17S/19E-14J01 M	217.0	3-00-70	NM-9		5050	17S/25E-27R01 M	350.0	2-02-70	80.0	270.0	5602
17S/20E-20D01 M	223.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-09-70 4-06-70 5-05-70 6-05-70	58.4 56.7 54.9 52.5 51.7 50.5 48.0 52.8 62.0	164.6 166.3 168.1 170.5 171.3 172.5	5050	17S/25E-35M01 M	349.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	73.9 73.5 70.5 69.7 66.5 63.5 62.5 64.8 68.5	275.1 272.5 278.5 279.3 285.5 285.5 286.5 288.5 280.5	5001
17S/21E-11K01 M	257.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-09-70 4-06-70 5-05-70 6-05-70	37.1 34.6 32.6 31.2 30.0 29.0 31.0 31.6 NM-1	219.9 222.4 225.6 225.8 227.0 228.0 226.0 225.4	5050	17S/25E-36R01 M	365.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	65.9 63.2 62.8 63.6 61.9 60.0 58.3 NM-1 64.8	299.1 301.8 302.2 301.4 303.1 305.0 306.7 300.2	5001
18S/19E-35J02 M	211.0	3-09-70	128.0	83.0	5050	17S/26E-32R01 M	385.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	NM-1 57.2 NM-1 56.0 54.4 52.7 50.8 51.9 NM-1	327.8	5001
18S/20E-16A01 M	230.0	3-03-70	6.5	233.5	5050	17S/26E-34D01 M	416.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	52.8 52.0 51.8 51.1 49.2 46.0 42.5 47.0 51.0	363.2 364.0 364.2 364.9 366.8 370.0 373.5 369.0 365.0	5001
18S/21E-10R01 M	254.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-09-70 4-06-70 5-05-70 6-05-70	57.3 60.7 54.3 51.5 50.4 52.5 66.0 NM-1 71.0	136.7 133.3 199.7 202.5 203.6 201.5 188.0	5050	KAWAHEE DELTA WATER CONSERVATION DISTRICT					
						5-22-24					
19S/19E-25A01 M	208.0	3-03-70	1.5	206.5	5050	17S/25E-15P01 M	340.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	NM-1 85.2 86.0 81.0 77.8 NM-1 94.0 NM-1	254.8 254.0 259.0 262.2	5001
20S/22E-19M02 M	211.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-09-70 4-06-70 5-05-70 6-05-70	17.5 17.6 17.6 17.6 17.1 16.2 16.1 16.5 17.2	193.5 193.4 193.4 193.4 193.9 194.8 194.9 194.4 193.8	5050	17S/26E-17P02 M	385.0	2-02-70	8.4	376.6	5001
ORANGE COVE IRRIGATION DISTRICT						5-22-21					
14S/24E-29C02 M	430.5	10-02-69 11-03-69 12-01-69 1-07-70 2-02-70 3-03-70 4-02-70 5-01-70 6-03-70	NM-1 32.3 35.6 38.5 38.8 39.5 36.7 37.1 NM-1	398.2 394.9 392.0 391.7 392.0 393.8 393.4	5001	17S/27E-34F01 M	470.0	2-02-70	12.5	457.5	5001
14S/25E-30D01 M	510.0	1-30-70	18.8	491.2	5001	18S/22E-29A01 M	251.0	2-20-70	81.2	169.8	5129
15S/24E-14D01 M	405.0	10-02-69 11-03-69 12-02-69 1-06-70 2-02-70	10.9 12.4 12.2 12.2 5.9	394.1 392.6 398.6 392.8 399.1	5001	18S/23E-12H01 M	282.5	10-30-69 12-03-69 1-28-70 2-27-70 3-30-70 4-30-70 6-03-70	48.0 44.0 40.5 39.3 38.4 49.5 50.1	234.5 238.5 240.5 243.2 244.1 238.0 232.4	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWAHE DELTA WATER CONSERVATION DISTRICT (Cont.)						TULARE IRRIGATION DISTRICT					
			5-22-24					5-22-25			
18S/23E-34A01 M	271.0	10-06-69 2-20-70	99.7 89.0	171.3 182.0	5129	20S/24E-16N01 M (Cont.)	273.0	12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	75.4 74.2 76.7 76.3 88.0 98.0	197.6 198.8 196.3 185.0 192.3 175.0	5001
18S/24E-26A01 M	312.5	10-02-69 2-09-70	50.1 45.0	262.4 267.5	5001 5603	20S/24E-30J02 M	250.0	10-02-69 10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 5-28-70	88.6 92.0 91.8 86.0 84.0 82.1 80.0 80.0	161.4 158.0 158.2 165.0 166.0 167.9 161.0 158.0	5001
18S/25E-12Q01 M	363.0	10-01-69 2-04-70	42.5 31.1	320.5 331.9	5001 5603	21S/23E-05R01 M	222.0	10-02-69 10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	75.6 73.5 71.1 69.7 68.5 67.7 67.7 67.7 67.7	186.4 188.5 150.9 152.3 153.5 154.3 154.3 154.3 154.3	5001
18S/25E-33P01 M	338.0	2-02-70	25.0	313.0	5603						
18S/26E-27E01 M	389.0	10-01-69 2-03-70	13.3 11.9	375.7 377.1	5001 5603	EXETER IRRIGATION DISTRICT					
18S/26E-30N01 M	367.0	10-30-69 12-04-69 12-29-69 1-28-70 2-27-70 3-30-70 4-30-70 6-03-70	14.6 14.0 14.2 13.3 14.1 14.5 14.6 23.0	352.4 353.0 352.8 353.2 352.9 352.5 348.4 344.0	5001			5-22-26			
19S/22E-01N02 M	245.0	10-07-69 2-09-70	50.3 50.5	194.7 194.5	5129 5603	18S/26E-25K01 M	436.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	39.9 38.6 38.3 37.5 36.7 34.5 35.5 37.9	396.1 397.4 397.7 398.5 400.3 401.5 400.5 399.1	5001
19S/25E-07K01 M	320.0	10-30-69 12-03-69 12-29-69 1-28-70 2-27-70 3-30-70 4-30-70 6-03-70	20.0 19.6 22.7 25.6 24.4 25.1 30.8 32.8	300.0 300.4 297.3 294.4 295.6 294.9 289.2 287.2	5001	18S/26E-34P02 M	391.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	43.9 41.9 41.7 41.1 39.2 38.9 42.4 42.0	347.1 349.1 349.3 349.9 351.8 352.1 348.6 349.0	5001
19S/26E-34R02 M	341.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	82.0 73.0 70.0 71.0 63.2 74.0 27.0 NM-1	259.0 268.0 271.0 270.0 277.8 267.0 NM-1 NM-1	5001	18S/27E-29D01 M	447.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	15.8 15.0 15.3 15.5 14.2 12.0 NM-1 NM-1	431.2 432.0 431.7 431.5 432.8 435.0 NM-1 NM-1	5001
20S/22E-10C01 M	226.0	2-23-70	80.4	145.6	5129	19S/26E-14E01 M	375.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	67.7 66.5 65.7 63.1 62.0 60.7 60.7 60.7	307.3 308.5 309.3 311.9 313.0 308.3 NM-1 NM-1	5001
20S/25E-14P01 M	304.5	10-23-69 11-25-69 12-29-69 1-21-70 2-25-70 3-24-70 4-22-70 5-26-70	46.4 41.5 42.2 40.7 42.6 45.6 45.6 60.6	258.1 263.0 262.3 263.8 261.9 258.9 258.9 243.9	5001	19S/26E-23E01 M	359.0	1-29-70	70.0	289.0	5605
TULARE IRRIGATION DISTRICT						LINDSEY-STRATHMORE IRRIGATION DISTRICT					
			5-22-25					5-22-27			
19S/23E-14R01 M	270.0	10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	65.0 53.3 62.5 62.7 61.0 61.2 66.0 63.3	205.0 206.7 207.5 207.3 209.0 208.8 204.0 206.7	5001	19S/27E-29D01 M	390.0	1-30-70	47.5	342.5	5606
19S/23E-32W01 M	251.0	2-23-70	85.5	165.5	5129	20S/27E-06B01 M	372.0	10-24-69 11-25-69 12-24-69 1-22-70 2-26-70 3-24-70 4-23-70 5-27-70	46.4 44.5 42.9 44.6 44.6 44.6 44.4 43.1	325.6 325.2 325.1 327.4 327.3 327.3 327.6 328.9	5001
19S/24E-16P01 M	290.0	10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	62.6 66.4 65.0 63.7 63.8 66.4 77.3 83.1	227.4 223.6 225.0 226.3 226.2 223.6 212.7 206.9	5001	20S/27E-16A01 M	426.0	10-23-69 11-26-69 12-24-69 1-21-70 2-26-70 3-24-70 4-22-70 5-26-70	22.9 22.8 23.0 22.8 22.9 22.0 23.0 26.0	403.1 403.2 403.0 403.2 403.1 404.0 403.0 400.0	5001
19S/24E-27Q01 M	290.0	10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	75.0 71.7 71.0 69.7 74.4 75.7 82.0 88.0	215.0 218.3 219.0 220.3 215.6 214.3 208.0 202.0	5001	20S/27E-21P01 M	414.0	1-30-70	32.3	381.7	5606
19S/25E-17A02 M	328.0	10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	31.6 28.5 26.8 28.5 28.0 31.2 37.2 36.5	296.4 299.5 299.2 299.5 300.0 296.8 290.8 291.5	5001	20S/27E-29J01 M	406.0	1-30-70	26.8	379.2	5606
20S/23E-08B02 M	241.0	10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	85.5 82.9 82.0 80.2 79.7 80.3 90.2 92.5	155.5 156.1 159.0 160.8 161.3 160.7 150.8 148.5	5001	21S/27E-01A01 M	460.0	10-23-69 11-26-69 12-24-69 1-21-70 2-26-70 3-24-70 4-22-70 5-26-70	20.0 19.5 16.0 15.7 14.2 16.1 16.3 20.8	440.0 440.5 440.0 444.8 445.8 443.9 445.0 440.2	5001
20S/24E-16N01 M	273.0	10-02-69 10-30-69 12-04-69	88.4 80.5 76.9	184.6 192.5 196.1	5001	LINDSEY IRRIGATION DISTRICT					
								5-22-28			
						20S/26E-01P01 M	360.0	10-24-69 11-26-69	72.2 67.5	287.8 292.5	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LINDMORE IRRIGATION DISTRICT						LOWER TULE RIVER IRRIGATION DISTRICT					
5-22-28						5-22-30					
20S/26E-01P01 M (Cont.)	360.0	12-24-69 68.0 1-21-70 66.9 2-26-70 63.6 3-24-70 NM-1 4-23-70 80.0 5-27-70 NM-1		292.0 293.1 293.4 280.0	5001	21S/24E-31D01 M (Cont.)	230.0	3-26-70 66.5 4-30-70 65.9 5-29-70 65.4		163.5 164.0 164.6	5001
20S/26E-22C02 M	342.0	1-27-70 92.3		249.7	5607	21S/24E-35M01 M	251.0	10-02-69 85.5 10-28-69 84.1 11-26-69 81.9 12-10-69 80.5 1-22-70 79.2 2-27-70 77.7 3-26-70 77.9 4-30-70 78.1 5-28-70 78.6		165.5 165.9 169.1 170.5 171.8 173.3 173.1 172.9 172.4	5001
20S/26E-24K01 M	362.5	10-23-69 61.7 11-25-69 61.3 12-23-69 60.3 1-21-70 59.7 2-25-70 59.1 3-24-70 58.2 4-22-70 59.9 5-26-70 60.1		300.8 301.2 302.2 302.8 303.4 304.3 302.6 302.4	5001	21S/25E-03H01 M	285.0	10-09-69 78.2 2-05-70 57.0		206.8 228.0	5001 5609
20S/26E-32A01 M	331.5	10-23-69 93.0 11-25-69 89.9 12-23-69 86.7 1-21-70 85.0 2-25-70 89.2 3-24-70 NM-1 4-22-70 96.2 5-26-70 90.7		238.5 241.6 244.8 246.5 242.3 235.3 240.8	5001	21S/26E-06G02 M	322.0	10-03-69 67.2 10-28-69 60.3 12-02-69 55.9 12-30-69 55.1 1-22-70 53.5 3-04-70 54.2 4-02-70 52.7 5-05-70 52.5 5-29-70 79.4		254.8 261.7 266.1 266.9 268.5 267.3 269.3 269.5 242.6	5001 5001
20S/27E-29E01 M	392.0	10-23-69 30.1 11-26-69 29.6 12-24-69 27.7 1-21-70 30.0 2-26-70 NM-7 3-24-70 28.8 4-22-70 30.0 5-26-70 NM-7		361.9 362.4 364.3 362.0 363.2 362.0	5001	21S/26E-10E01 M	350.0	10-02-69 47.6 10-28-69 45.2 11-26-69 40.7 12-30-69 35.3 1-22-70 34.2 3-04-70 32.6 4-02-70 34.9 5-05-70 34.3 5-28-70 34.8		302.4 304.8 309.3 314.7 315.8 317.4 315.1 315.7 315.2	5001
PORTERVILLE IRRIGATION DISTRICT						22S/24E-09A01 M	245.0	10-02-69 112.5 10-28-69 113.0 11-26-69 112.0 12-30-69 111.1 1-22-70 110.6 2-27-70 109.4 4-02-70 109.0 4-30-70 108.8 5-28-70 108.7		132.5 132.0 133.0 133.9 134.4 135.6 136.0 136.2 136.3	5001
21S/26E-12A01 M	372.0	10-24-69 39.7 11-25-69 37.7 12-28-69 35.0 1-09-70 34.2 2-26-70 33.0 3-27-70 32.7 4-27-70 34.3 5-29-70 35.6		332.3 334.3 337.0 337.8 339.0 339.3 340.7 336.4	5608	22S/24E-15A01 M	251.5	10-08-69 141.5 2-03-70 129.6		110.0 121.9	5001 5609
21S/27E-21C01 M	409.0	10-23-69 15.5 11-25-69 13.7 12-23-69 12.7 1-21-70 12.8 2-25-70 11.0 3-24-70 10.7 4-22-70 12.5 5-26-70 12.6		393.5 395.3 396.3 396.2 398.0 398.3 396.5 396.2	5001	22S/25E-10E01 M	296.0	10-02-69 98.0 10-28-69 93.5 11-26-69 93.1 12-30-69 93.6 1-22-70 93.1 2-27-70 93.0 4-30-70 92.3 5-28-70 93.7 5-28-70 93.3		198.0 202.5 202.9 202.4 202.9 203.0 203.7 202.3 202.7	5001
21S/27E-28E01 M	420.0	10-24-69 11.5 11-25-69 12.4 12-28-69 11.7 1-29-70 11.0 2-26-70 10.5 3-27-70 10.7 4-27-70 13.0 6-01-70 14.5		408.5 407.6 408.3 409.0 409.5 409.3 407.0 405.5	5001	22S/25E-15A01 M	303.0	10-14-69 127.7 2-06-70 123.7		175.3 179.3	5001 5609
22S/26E-01J01 M	395.0	10-22-69 77.8 11-25-69 74.3 12-28-69 73.7 1-29-70 69.7 2-26-70 69.8 3-27-70 72.5 4-27-70 73.2 5-29-70 73.9		317.2 320.7 321.3 325.3 325.2 322.5 321.8 321.1	5001	22S/26E-06A01 M	337.0	1-29-70 105.5		231.5	5611
22S/27E-06D01 M	397.0	10-22-69 52.1 11-25-69 50.3 12-28-69 49.1 1-29-70 48.7 2-26-70 48.2 3-27-70 48.9 4-27-70 50.5 5-29-70 52.2		344.9 346.7 347.9 348.3 348.8 348.1 346.5 344.8	5608	VANDALIA IRRIGATION DISTRICT					
22S/27E-10A01 M	455.0	10-22-69 71.9 11-25-69 68.4 12-28-69 67.6 1-29-70 66.1 2-26-70 64.5 3-27-70 64.3 4-27-70 68.1 5-29-70 71.2		383.1 386.6 387.4 389.9 390.5 390.7 386.9 383.8	5608	5-22-31					
22S/27E-10R01 M	466.8	1-29-70 107.0		359.8	5608	22S/28E-07Q01 M	524.0	10-23-69 NM-1 11-25-69 149.1 12-23-69 137.0 1-21-70 125.0 2-25-70 122.9 3-24-70 119.7 4-22-70 NM-1 5-26-70 NM-1			5001
LOWER TULE RIVER IRRIGATION DISTRICT						22S/28E-17N01 M	577.0	10-23-69 162.5 11-25-69 159.5 12-23-69 155.7 1-21-70 144.5 2-25-70 125.5 3-24-70 130.5 4-22-70 132.0 5-26-70 140.7		414.5 417.5 421.3 432.5 461.5 446.5 445.0 436.3	5001
5-22-30						22S/28E-18A01 M	535.0	10-23-69 147.5 11-25-69 127.2 12-23-69 127.0 1-21-70 111.0 2-25-70 106.2 3-24-70 114.0 4-22-70 115.2 5-26-70 125.3		387.5 407.8 408.0 429.0 426.8 423.0 439.8 409.7	5001
21S/23E-22J01 M	221.5	10-07-69 /8.0 2-12-70 69.8		143.5 151.7	5001 5603	SAUCELO IRRIGATION DISTRICT					
21S/24E-15H01 M	253.0	2-05-70 41.0		212.0	5609	5-22-32					
21S/24E-31D01 M	230.0	10-07-69 72.4 10-28-69 71.6 11-26-69 70.3 12-30-69 69.9 1-22-70 69.9 2-27-70 67.9		157.6 158.4 159.7 160.1 160.1 162.1	5001	22S/26E-15J01 M	371.0	10-23-69 126.6 11-25-69 122.6 12-23-69 120.0 1-21-70 120.0 2-25-70 120.5 3-24-70 NM-1 4-22-70 NM-1 5-26-70 NM-1		244.4 248.4 251.0 251.0 250.5	5001
23S/26E-02R01 M	397.0	1-30-70 144.5		252.5	5611						

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAUCELO IRRIGATION DISTRICT (Cont.)						ALPAUGH-ALLENSWORTH AREA					
			5-22.32					5-22.34			
23S/25E-03R01 M	381.0	10-23-69	168.3	212.7	5001	24S/24E-34P01 M (Cont.)	232.0	3-23-70	84.8	147.2	5001
		11-25-69	163.1	217.9				4-21-70	89.5	142.5	
		12-23-69	162.7	218.3				5-25-70	90.3	141.7	
		1-21-70	160.0	221.0		24S/25E-17P01 M	268.0	10-22-69	116.5	151.5	5001
		2-25-70	157.7	223.3				11-24-69	101.2	156.8	
		3-24-70	165.0	216.0				12-22-69	107.5	160.1	
		4-22-70	NM-1					1-02-70	NM-0		
		5-26-70	171.1	209.9		DELANO-EARLEWART IRRIGATION DISTRICT					
FIXLEY IRRIGATION DISTRICT								5-22.35			
			5-22.33			23S/25E-27J02 M	296.0	1-29-70	83.0	213.0	5613
22S/25E-25W01 M	310.0	10-22-69	188.5	121.5	5001	23S/26E-29P01 M	356.5	1-29-70	159.5	197.0	5613
		11-25-69	181.9	128.1		23S/27E-27O01 M	552.0	1-30-70	366.9	185.1	5001
		12-23-69	177.0	133.0		24S/25E-02H01 M	321.0	10-22-69	101.0	220.0	5001
		1-21-70	171.0	139.0				11-25-69	99.5	221.5	
		2-25-70	170.1	139.9				12-27-69	99.5	221.5	
		3-24-70	181.9	128.1				1-20-70	99.4	221.6	
		4-22-70	190.9	119.1				2-24-70	99.5	221.5	
		5-25-70	196.9	113.1				3-23-70	99.5	221.5	
23S/23E-02B01 M	207.0	1-29-70	35.6	171.4	5001			4-21-70	100.3	220.7	
23S/24E-16R01 M	222.0	10-22-69	130.3	91.7	5001			5-25-70	100.5	220.5	
		11-24-69	126.5	95.5		24S/25E-10A01 M	304.0	1-30-70	100.5	203.5	5613
		12-22-69	124.2	97.8		24S/25E-33J01 M	292.0	1-27-70	58.5	233.5	5001
		1-20-70	122.0	100.0		24S/26E-05R01 M	376.0	1-26-70	151.0	225.0	5613
		2-24-70	101.7	120.3		24S/26E-29H01 M	378.0	1-27-70	133.0	245.0	5613
		3-23-70	120.3	101.7		24S/26E-29R02 M	400.0	10-20-69	131.6	268.4	5000
		4-21-70	124.1	97.9				11-24-69	129.3	270.7	
		5-25-70	125.5	96.5				12-16-69	NM-1		
23S/25E-14C01 M	300.0	1-28-70	55.7	244.3	5001			1-26-70	125.0	275.0	
23S/25E-16W04 M	263.0	10-21-69	83.1	179.9	5000			2-24-70	126.7	273.3	
		11-17-69	90.0	173.0				3-23-70	120.0	280.0	
		12-15-69	78.5	184.5				4-20-70	134.2	265.8	
		1-12-70	77.9	185.1				5-25-70	130.7	260.3	
		2-06-70	77.2	185.8		24S/26E-32O01 M	397.0	1-26-70	106.0	291.0	5613
		3-09-70	77.5	185.5		24S/26E-34P01 M	445.0	10-20-69	222.5	222.5	5000
		4-06-70	80.3	182.7				11-17-69	213.3	231.7	
		5-04-70	81.7	181.3				12-16-69	208.6	236.4	
23S/26E-08R01 M	345.0	10-23-69	176.4	168.6	5001			1-12-70	203.1	241.9	
		11-23-69	171.8	173.2				2-06-70	205.7	239.3	
		12-23-69	168.9	176.1				3-10-70	205.6	239.4	
		1-21-70	166.5	178.5				4-06-70	216.9	228.1	
		2-25-70	164.9	180.1				5-25-70	NM-7		
		3-24-70	169.6	175.4		24S/27E-32K01 M	540.0	9-29-70	NM-1		5626
		4-22-70	168.5	176.5		25S/26E-10B03 M	430.0	1-26-70	183.5	246.5	5613
		5-26-70	176.7	168.3		25S/26E-16P01 M	388.0	10-20-69	83.8	304.2	5000
ALPAUGH-ALLENSWORTH AREA								11-24-69	81.8	306.2	
			5-22.34					12-16-69	NM-7		
23S/24E-35A02 M	235.0	10-22-69	165.0	70.0	5001			1-26-70	70.4	308.6	
		11-24-69	165.0	70.0				2-24-70	68.0	320.0	
		12-22-69	157.8	77.2				3-23-70	66.7	321.3	
		1-20-70	150.8	104.2				4-20-70	77.0	311.0	
		2-24-70	101.9	133.1				5-25-70	76.0	312.0	
		3-23-70	145.8	89.2		25S/27E-22H01 M	750.0	9-22-70	440.0	301.0	5001
		4-21-70	164.9	70.1				SOUTHERN SAN JOAQUIN MUD			
		5-25-70	175.7	59.3					5-22.36		
24S/23E-05R02 M	210.0	10-22-69	245.0	-35.0	5001	25S/24E-12A02 M	253.0	10-20-69	82.1	170.9	5000
		11-24-69	236.4	-26.4				11-24-70	78.3	178.7	
		12-22-69	227.6	-17.6				12-22-69	70.2	182.6	
		1-20-70	225.8	-15.8				1-02-70	NM-0		
		2-24-70	211.9	-1.9		25S/25E-06H01 M	259.0	10-00-69	NM-7		5614
		3-24-70	NM-1			25S/25E-22D01 M	286.0	1-26-70	145.2	140.8	5000
		4-21-70	242.9	-32.9				2-24-70	144.4	141.6	
		5-25-70	NM-1					3-23-70	140.6	145.4	
24S/23E-21B02 M	205.0	10-22-69	68.0	137.0	5001			4-20-70	164.2	121.8	
		11-24-69	68.5	136.5				5-25-70	175.2	110.8	
		12-22-69	68.2	136.8		25S/25E-36R02 M	335.0	1-29-70	159.0	176.0	5614
		1-20-70	66.5	138.5		25S/26E-28E01 M	394.0	10-20-69	137.2	256.8	5000
		2-24-70	68.5	136.5				11-24-69	133.3	260.7	
		3-23-70	68.0	137.0				12-16-69	NM-7		
		4-21-70	67.9	137.1				1-26-70	130.6	263.4	
		5-25-70	67.9	137.1				2-24-70	139.8	254.2	
24S/23E-34R01 M	205.0	1-27-70	202.2	2.8	5001			3-23-70	138.2	255.8	
24S/24E-20R01 M	218.0	10-22-69	227.0	-9.0	5001			4-20-70	135.0	259.0	
		11-24-69	197.2	20.8				5-25-70	138.4	255.6	
		12-22-69	183.5	34.5		25S/26E-28H02 M	414.0	1-29-70	155.0	259.0	5614
		1-20-70	178.5	39.5		26S/26E-16P01 M	443.0	1-28-70	291.8	161.2	5614
		2-24-70	159.7	59.3				NORTH KERN WATER STORAGE DISTRICT			
		3-23-70	151.0	37.0					5-22.37		
		4-21-70	NM-1			26S/25E-15P01 M	346.7	10-20-69	204.0	142.7	5000
		5-25-70	194.8	23.2				11-24-69	228.0	118.7	
24S/24E-22R01 M	233.0	10-22-69	196.5	36.5	5001			12-22-69	213.0	113.7	
		11-24-69	175.3	57.7				1-26-70	206.4	118.7	
		12-22-69	155.5	77.5				2-24-70	215.0	131.7	
		1-20-70	144.7	88.3				3-23-70	230.0	116.7	
		2-24-70	141.5	91.5							
		3-23-70	146.5	86.5							
		4-21-70	167.2	65.8							
		5-25-70	180.4	52.6							
24S/24E-23Q01 M	235.0	10-00-69	NM-6		5001						
24S/24E-34P01 M	232.0	10-22-69	91.0	141.0	5001						
		11-24-69	86.5	145.5							
		12-22-69	81.8	148.2							
		1-20-70	NM-9								
		2-24-70	82.2	149.8							

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH KERN WATER STORAGE DISTRICT 5-22-37						KERN RIVER DELTA AREA 5-22-40					
26S/25E-15P01 M (Cont.)	346.7	4-20-70	244.0	102.7	5000	30S/28E-34R02 M	359.0	10-21-69	96.4	262.6	5000
		5-25-70	228.0	118.7				11-25-69	96.4	262.6	
26S/25E-15R01 M	352.3	10-00-69	NM-7		5050			12-23-69	97.2	261.8	
26S/26E-30P01 M	392.0	10-00-69	NM-7		5050			1-27-70	95.2	263.8	
								2-25-70	96.3	265.2	
27S/25E-01N03 M	394.0	10-20-69	265.0	129.0	5000			3-23-70	97.3	261.7	
		11-24-69	252.6	141.4				4-21-70	100.2	258.8	
		12-22-69	246.8	147.2				5-26-70	99.2	259.3	
		1-26-70	243.2	150.8		31S/26E-35D01 M	294.5	1-20-70	47.2	247.3	5121
		2-24-70	241.5	150.5				1-20-70	124.6	216.5	5050
		3-23-70	252.2	141.8		31S/27E-04L01 M	341.1	1-20-70			
		4-20-70	265.6	138.4				1-27-70	78.5	233.6	5121
		5-25-70	265.4	128.6		31S/27E-28J01 M	312.1	9-15-70	72.5	239.6	
27S/26E-06H02 M	416.0	10-00-69	NM-6		5001			1-20-70	66.0	248.7	5050
27S/26E-20R01 M	435.7	10-00-69	NM-7		5050	31S/28E-30M01 M	314.7	10-00-69	NM-0		5121
27S/27E-30H02 M	525.0	1-28-70	423.0	102.0	5001	32S/26E-36Q01 M	378.0	10-00-69	NM-0		5050
28S/25E-13L01 M	361.1	10-00-69	NM-7		5050	32S/27E-18R01 M	292.6	10-00-69	NM-1		5050
28S/26E-21N03 M	388.0	10-20-69	239.7	148.3	5000	32S/28E-04R01 M	301.0	1-26-70	42.2	258.8	5001
		11-24-69	228.7	159.3				9-21-70	60.2	240.8	
		12-22-69	224.0	164.0		EDISON-MARICOPA AREA 5-22-41					
		1-26-70	225.2	162.8		29S/29E-33M01 M	578.0	2-06-70	447.9	130.1	5644
		2-24-70	226.4	161.6		30S/28E-02R01 M	410.0	1-27-70	225.5	184.5	5001
		3-23-70	238.3	149.7				9-22-70	221.6	188.4	
		4-20-70	251.2	136.8				10-21-69	48.4	323.6	5000
		5-25-70	268.6	119.4				11-25-69	48.1	323.9	
SHAPTER-WASCO IRRIGATION DISTRICT 5-22-38								12-23-69	49.2	322.8	
27S/24E-01L02 M	322.0	10-20-69	238.0	84.0	5000			1-27-70	47.4	324.6	
		11-24-69	217.0	105.0				2-25-70	48.1	323.9	
		12-22-69	209.2	112.8				3-23-70	47.9	324.1	
		1-26-70	211.0	111.0				4-21-70	48.6	323.4	
		2-24-70	214.0	108.0				5-26-70	49.0	323.0	
		3-23-70	235.7	86.3		30S/28E-10N01 M	372.0	10-21-69	181.9	188.1	5000
		4-20-70	252.2	67.8				11-25-69	181.0	191.0	
		5-25-70	258.2	61.8				12-23-69	178.6	193.4	
27S/24E-35C01 M	316.0	10-00-70	243.7	72.3	5050			1-27-70	177.8	194.2	
27S/25E-28A01 M	375.0	10-20-69	233.5	141.5	5000			2-25-70	177.0	195.0	
		11-24-69	222.4	152.6				3-23-70	180.8	191.2	
		12-22-69	232.6	142.4				4-21-70	184.8	187.2	
		1-26-70	227.0	148.0				5-26-70	183.5	189.5	
		2-24-70	232.5	142.5		30S/29E-26A01 M	628.0	2-12-70	467.4	160.6	5644
		3-23-70	NM-1			30S/30E-20R01 M	791.5	10-00-69	NM-7		5644
		4-20-70	233.6	141.4				2-17-70	348.5	119.5	5644
		5-25-70	236.8	138.2		31S/29E-09A01 M	468.0	1-26-70	151.2	248.8	5001
28S/25E-16P01 M	329.0	10-20-69	196.2	132.8	5000			9-21-70	161.7	236.3	
		11-24-69	193.3	135.7		31S/29E-29A01 M	400.0	1-26-70			
		12-22-69	191.5	137.5				2-19-70	357.7	178.3	5644
		1-26-70	190.7	138.3		32S/29E-35R02 M	442.5	1-20-70	158.0	284.5	5121
		2-24-70	191.5	137.5				9-16-70	229.0	213.5	
		3-23-70	198.8	130.1		32S/28E-23R01 M	386.7	1-26-70	272.0	114.7	5644
		4-20-70	198.8	130.2				10-21-69	203.3	212.7	5000
		5-25-70	198.8	130.2				11-25-69	205.1	210.9	
KERN RIVER DELTA AREA 5-22-40								12-23-69	202.1	213.7	
28S/26E-29L01 M	350.0	9-30-70	158.0	192.0	5616			1-27-70	202.2	213.8	
29S/25E-12M03 M	330.0	10-20-69	167.8	162.2	5000			2-25-70	202.3	213.7	
		11-24-69	164.4	165.6				3-24-70	204.8	211.2	
		12-22-69	163.0	167.0				4-21-70	202.5	213.5	
		1-26-70	161.9	168.1				5-26-70	200.2	215.8	
		2-24-70	161.3	168.7		32S/29E-19H03 M	416.0	10-21-69	316.6	99.4	5000
		3-23-70	163.5	166.5				11-25-69	301.4	114.6	
		4-20-70	168.2	161.8				12-23-69	301.2	114.8	
		5-25-70	166.5	163.5				1-27-70	301.3	114.7	
29S/27E-33D01 M	380.0	10-20-69	54.4	325.6	5000			2-25-70	309.3	106.7	
		11-25-69	50.5	329.5				3-24-70	348.0	68.0	
		12-22-69	52.2	327.8				4-21-70	340.0	76.0	
		1-26-70	52.2	327.8		11N/18W-18H01 S	726.0	2-02-70	509.0	217.0	5644
		2-24-70	52.2	327.8				2-03-70	432.9	143.1	5644
		3-23-70	54.9	325.1		11N/19W-04H01 S	576.0				
		4-21-70	57.2	322.8				10-21-69	509.3	163.7	5000
		5-25-70	65.2	314.8		11N/19W-07R03 S	673.0	11-25-69	504.1	168.9	
30S/25E-17R01 M	259.6	10-03-69	73.1	226.5	5640			12-23-69	506.4	166.6	
		11-05-69	70.1	229.5				1-27-70	506.0	167.0	
		12-03-69	56.4	243.2				2-25-70	504.5	168.5	
		12-30-69	56.6	243.0				3-24-70	509.6	163.4	
		2-05-70	58.3	241.3				4-21-70	510.6	162.4	
		3-04-70	54.6	245.0				5-26-70	509.6	163.4	
		4-04-70	65.5	234.1		11N/20W-07Q01 S	452.3	10-00-69	NM-3		5050
		5-05-70	NM-2			11N/20W-24A01 S	730.3	10-03-69	581.7	148.6	5050
		6-03-70	NM-2			11N/21W-05M01 S	515.9	10-03-69	499.1	16.8	5050
30S/26E-22P02 M	338.0	10-20-69	80.2	257.8	5000	11N/22W-04H01 S	529.0	10-00-69	NM-7		5050
		11-24-69	73.1	264.9		12N/21W-29N01 S	423.3	10-00-69	NM-0		5121
		12-22-69	76.6	261.4		12N/23W-28P01 S	498.0	10-00-69	NM-0		5121
		1-26-70	77.4	260.6							
		2-24-70	79.4	258.6							
		3-23-70	78.6	259.4							
		4-20-70	79.7	258.3							
		5-25-70	77.9	260.1							

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
BUEN VISTA WATER STORAGE DISTRICT 5-22.42						SEMITROPIC WATER STORAGE DISTRICT 5-22.43					
27S/22E-21P02 M	240.0	1-23-70 9-23-70	13.0 14.0	227.0 226.0	5121	25S/24E-15H01 M (Cont.)	248.0	4-20-70 5-25-70	83.0 83.3	165.0 164.7	5000
27S/22E-32H01 M	241.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	131.1 133.1 129.1 125.2 125.4 124.8 128.6 132.7	109.9 107.9 116.9 115.8 115.6 116.2 112.4 108.3	5000	25S/24E-30H01 M	238.0	1-26-70 9-21-70	105.6 273.4	42.4 -35.4	5001
28S/22E-09D01 M	240.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-23-70 4-21-70 5-26-70	8.0 8.0 7.8 9.0 9.5 9.0 8.8 9.2	232.0 232.0 232.2 231.0 230.5 231.0 231.2 230.8	5000	26S/21E-14E01 M	244.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	32.2 31.2 32.1 32.2 32.1 32.2 32.8 33.8	211.8 212.8 211.8 211.8 211.9 211.8 212.0	5000
28S/22E-10D02 M	245.0	10-00-69	NM-0		5121	26S/21E-14J01 M	237.0	1-28-70	27.0	210.0	5121
28S/23E-31R01 M	257.8	10-02-69 2-03-70	18.4 36.5	239.4 221.3	5640	26S/22E-10002 M	225.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	73.4 69.6 65.0 60.3 55.2 57.6 62.2 65.3	151.6 155.4 160.0 164.7 166.8 167.4 162.8 159.7	5000
29S/23E-08A01 M	260.3	3-02-70	25.0	235.3	5050	26S/22E-35E01 M	253.0	10-00-69	NM-0		5121
29S/23E-25J01 M	275.0	10-07-69 11-05-69 12-01-69 1-08-70 1-09-70	61.1 59.6 59.5 62.0 NM-0	213.9 215.4 215.5 213.0	5050	26S/23E-02R01 M	234.9	10-00-69	NM-0		5121
29S/23E-27M01 M	270.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	31.0 30.8 33.5 32.7 36.5 35.2 38.1 36.8	219.0 219.2 236.5 237.3 233.5 234.8 231.9 233.2	5000	26S/24E-23H01 M	245.5	9-23-70	NM-1		5050
30S/23E-01D01 M	276.8	10-03-69 2-06-70	50.9 53.2	225.9 223.6	5640	27S/23E-01R01 M	267.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	97.4 96.7 96.1 95.6 96.1 NM-7 97.6 98.2	169.6 170.3 170.9 171.4 170.9	5000
30S/24E-02C01 M	290.0	10-02-69 2-05-70	85.3 90.8	204.7 199.2	5640	27S/23E-01R04 M	267.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	233.2 212.0 210.3 213.2 218.5 NM-7 248.4 249.0	33.8 55.0 56.7 53.8 48.5 18.6 18.0	5000
30S/24E-04C01 M	282.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	63.8 62.6 69.6 65.5 70.2 78.7 82.0 72.7	218.2 219.4 212.4 216.5 202.8 203.3 200.0 204.3	5000	27S/23E-01R05 M	267.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	230.8 210.7 209.4 212.0 219.4 NM-7 247.4 248.4	36.2 56.3 57.6 55.0 47.6 19.6 22.6	5000
31S/25E-27P01 M	283.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	NM-7 19.2 18.2 18.2 18.2 22.2 30.4	263.8 264.6 264.8 264.6 264.8 260.8 252.6	5000	27S/23E-06L01 M	258.0	1-23-70 9-21-70	33.0 30.5	225.0 227.5	5121
SEMITROPIC WATER STORAGE DISTRICT 5-22.43						28S/23E-11E01 M	255.0	10-02-69 11-03-69 12-01-69 12-30-69 2-02-70 3-02-70 4-03-70 5-04-70 6-03-70	37.5 36.5 36.1 33.5 37.7 35.0 35.1 34.2 36.0	217.5 218.5 218.9 221.5 217.3 220.0 219.9 220.8 219.0	5640
25S/22E-02N02 M	212.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	78.4 78.2 75.3 72.1 64.8 67.1 66.6 67.4	133.6 133.8 136.7 139.9 147.2 144.9 145.4 144.6	5000	AVENAL-MCKITTRICK AREA 5-22.44					
25S/22E-14G01 M	215.0	1-27-70 9-22-70	174.5 251.0	40.5 -36.0	5121	23S/18E-29E02 M	560.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	138.8 139.2 139.3 139.4 139.8 138.9 140.2 140.4	421.2 420.8 420.7 420.6 420.2 423.1 419.8 419.6	5000
25S/23E-28D01 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	103.1 99.0 97.2 95.6 97.7 95.8 96.2 97.5	113.9 118.0 119.8 121.4 119.3 121.2 120.8 119.5	5000	23S/19E-26M01 M	267.0	10-06-69 11-04-69 12-02-69 1-07-70 1-28-70 3-10-70 4-06-70 5-11-70 6-09-70	67.7 66.8 66.2 66.8 69.5 68.3 68.0 68.2 68.2	199.3 200.2 200.5 200.2 197.5 198.7 199.0 198.8 195.8	5050
25S/23E-28D03 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	233.2 204.2 184.3 182.2 185.0 185.0 198.5 213.3	-16.2 12.8 32.7 34.8 31.1 32.0 18.5 3.7	5000	25S/19E-15J001 M	422.0	10-00-69	NM-0		5121
25S/24E-10X01 M	240.0	1-26-70 9-21-70	58.0 58.7	182.0 181.3	5001	25S/19E-20Q02 M	480.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	129.3 128.3 126.6 126.4 126.3 125.4 124.7 123.9	350.7 351.7 353.4 353.6 353.7 354.6 355.3 356.1	5000
25S/24E-15H01 M	248.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70	84.1 NM-7 82.4 82.2 82.4 82.5	163.9 165.6 165.8 165.6 165.5	5000	25S/20E-04C01 M	268.0	10-00-69	NM-0		5121

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA		
AVENAL-MCKITTRICK AREA (Cont.)						CORCORAN IRRIGATION DISTRICT							
			5-22.44							5-22.46			
26S/17E-13L02 M	910.0	10-00-69	NM-0		5121	21S/22E-27A01 M	196.0	10-02-69	13.3	182.7	5050		
26S/18E-19B02 M	875.0	1-28-70	58.0	817.0	5121			10-31-69	13.2	182.5			
		9-23-70	NM-9					11-28-69	13.4	182.6			
27S/18E-15R01 M	1220.0	10-00-69	NM-0		5121			1-06-70	12.5	183.5			
28S/22E-20W01 M	290.0	10-07-69	61.8	228.2	5050			2-03-70	13.4	182.6			
		11-05-69	61.2	228.8				3-09-70	11.8	184.2			
		12-03-69	61.0	229.0				4-06-70	12.5	183.5			
		1-03-70	62.0	228.0				5-05-70	12.8	183.2			
		1-29-70	61.8	228.2				6-05-70	12.7	183.3			
		3-11-70	63.3	226.7									
		4-07-70	62.3	227.7				22S/22E-01B02 M	201.0	10-02-69	11.7	189.3	5050
		5-12-70	62.0	228.0						10-31-69	11.1	189.9	
		6-11-70	63.3	226.7						11-28-69	10.9	190.1	
										1-06-70	11.0	190.0	
										2-03-70	10.7	190.3	
										3-09-70	10.7	190.3	
										4-06-70	10.3	190.7	
										5-05-70	10.4	190.6	
										6-05-70	10.8	190.2	
TULARE LAKE-LOST HILLS AREA						5-22.45							
22S/19E-18P02 M	255.0	10-06-69	181.5	73.5	5050	22S/22E-10A01 M	192.0	10-02-69	112.4	79.6	5050		
		11-04-69	180.0	75.0				10-31-69	110.6	81.4			
		12-02-69	180.0	75.0				11-28-69	107.8	84.2			
		1-07-70	NM-1					1-06-70	103.2	88.8			
		1-28-70	178.0	77.0				2-03-70	99.7	92.3			
		3-10-70	178.0	77.0				3-09-70	97.6	94.4			
		4-06-70	180.0	75.0				4-06-70	93.1	98.9			
		5-11-70	181.0	74.0				5-05-70	92.6	99.4			
		6-09-70	187.0	68.0				6-05-70	94.2	97.8			
23S/19E-14R01 M	235.0	10-06-69	41.2	193.8	5050	22S/22E-13P01 M	193.0	10-02-69	11.0	182.0	5050		
		11-04-69	40.2	194.8				10-31-69	10.8	182.2			
		12-02-69	39.3	195.7				11-28-69	9.6	183.4			
		1-07-70	39.2	195.8				1-06-70	9.2	183.8			
		1-28-70	39.2	195.8				2-03-70	9.1	183.9			
		3-10-70	39.2	195.8				3-09-70	8.8	184.2			
		4-06-70	39.1	195.9				4-06-70	8.5	184.5			
		5-11-70	39.3	195.7				5-05-70	8.7	184.3			
		6-09-70	39.2	195.8				6-05-70	9.1	183.9			
24S/20E-21N02 M	233.0	10-06-69	28.5	204.5	5050	22S/22E-15C01 M	191.0	10-02-69	111.0	80.0	5050		
		11-04-69	28.3	204.7				10-31-69	107.7	81.3			
		12-02-69	28.1	204.9				11-28-69	105.3	85.7			
		1-07-70	28.4	204.6				1-06-70	101.3	89.7			
		1-28-70	28.5	204.5				2-03-70	98.4	92.6			
		3-10-70	28.5	204.5				3-09-70	94.5	96.5			
		4-06-70	28.4	204.6				4-06-70	91.9	99.1			
		5-13-70	28.5	204.5				5-05-70	91.0	100.0			
		6-11-70	28.5	204.5				6-05-70	92.0	99.0			
24S/22E-28A02 M	207.0	10-02-69	227.5	-20.5	5050	22S/22E-22H01 M	191.0	10-02-69	108.5	82.5	5050		
		10-31-69	224.0	-17.0				10-31-69	114.0	77.0			
		11-28-69	197.0	10.0				11-28-69	113.5	77.5			
		1-06-70	169.0	38.0				1-06-70	105.0	86.0			
		2-03-70	159.0	48.0				2-03-70	NM-3				
		3-09-70	NM-9					3-09-70	102.0	89.0			
		4-06-70	199.5	7.5				4-06-70	NM-3				
		5-05-70	181.7	25.3				5-05-70	94.5	96.5			
		6-05-70	198.0	9.0				6-05-70	97.0	94.0			
24S/22E-35R01 M	213.0	10-02-69	NM-1		5050	MENDOTA-HURON AREA							
		10-31-69	243.0	-30.0		5-22.47							
		11-28-69	219.0	-6.0		13S/12E-22N01 M	280.0	10-09-69	143.7	136.3	5001		
		1-06-70	194.5	18.5				3-11-70	136.1	143.9			
		2-03-70	182.5	30.5		14S/12E-12H01 M	338.0	10-22-69	514.5	-176.5	5000		
		3-09-70	181.0	32.0				11-20-69	522.9	-184.9			
		4-06-70	187.5	25.5				12-18-69	513.2	-175.2			
		5-05-70	NM-1					1-16-70	514.2	-176.2			
		6-05-70	NM-1					2-11-70	509.2	-171.2			
25S/21E-30K01 M	237.5	10-06-69	36.5	201.0	5050			3-11-70	506.2	-168.2			
		11-04-69	36.5	201.0				4-09-70	506.2	-168.2			
		12-02-69	36.4	201.1				5-05-70	511.8	-173.8			
		1-08-70	36.4	201.1									
		1-28-70	36.1	201.4				14S/13E-15M01 M	321.0	12-00-69	NM-7	5050	
		3-10-70	36.2	201.3				14S/14E-28E02 M	248.0	10-00-69	NM-0	5000	
		4-07-70	36.2	201.3				14S/15E-18E02 M	178.0	12-09-69	213.0	-35.0	5050
		5-13-70	36.3	201.2						2-11-70	217.4	-39.4	5621
		6-11-70	36.2	201.3									
26S/21E-22D01 M	281.0	10-07-69	67.7	213.3	5050								
		11-05-69	67.5	213.5									
		12-02-69	69.0	212.0									
		1-08-70	67.7	213.3									
		1-28-70	67.5	213.5									
		3-10-70	68.7	212.3									
		4-07-70	68.0	213.0									
		5-12-70	68.0	213.0									
		6-11-70	68.2	212.8									
CORCORAN IRRIGATION DISTRICT						5-22.46							
20S/22E-35R01 M	216.0	10-02-69	30.7	185.3	5050	15S/14E-15R04 M	236.0	10-22-69	379.3	-143.3	5000		
		10-31-69	27.9	188.1				11-26-69	359.4	-123.4			
		11-28-69	25.8	190.2				12-24-69	362.6	-126.6			
		1-06-70	25.4	190.6				1-28-70	360.1	-124.1			
		2-03-70	28.0	188.0				2-26-70	362.3	-126.3			
		3-09-70	25.2	190.8				3-25-70	356.5	-119.5			
		4-06-70	24.9	191.1				4-22-70	358.6	-122.6			
		5-05-70	25.0	191.1				5-27-70	364.0	-128.0			
		6-05-70	27.9	188.1									
15S/15E-22Q01 M	176.0	2-04-70	105.9	70.1	5001	15S/16E-17L01 M	165.0	10-22-69	44.1	120.9	5000		
								11-26-69	43.7	121.3			
								12-24-69	43.7	121.3			

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA						POSO SOIL CONSERVATION DISTRICT					
			5-22-47					5-22-48			
15S/16E-17L01 M (Cont.)	165.0	1-28-70 43.8 2-26-70 44.0 3-25-70 44.2 4-22-70 45.7 5-27-70 43.6	121.2 121.0 120.8 119.3 121.4	5000		11S/13E-26A01 M (Cont.)	128.0	10-03-69 8.6 1-03-70 8.6 2-04-70 8.7 3-02-70 7.7 4-06-70 7.1 5-00-70 11.8 6-01-70 12.7	119.4 119.4 119.3 120.3 120.9 116.2 115.3	5529	
15S/16E-20R01 M	170.0	10-00-69	NM-0	5000		11S/13E-33L01 M	126.0	10-02-69 8.1 11-05-69 12.8 12-03-69 8.6 1-03-70 9.4 2-04-70 8.9 3-02-70 8.4 4-06-70 7.4 5-06-70 7.2 6-01-70 9.2	117.9 113.2 117.4 116.6 117.1 117.6 118.6 118.8 116.8	5529	
15S/16E-28A04 M	169.0	10-22-69 177.2 11-26-69 175.0 12-24-69 172.7 1-28-70 171.8 2-26-70 171.6 3-25-70 171.0 4-22-70 170.6 5-27-70 170.8	-8.2 -6.0 -3.7 -2.8 -2.6 -2.0 -1.6 -1.8	5000		12S/13E-13J01 M	140.0	10-02-69 7.3 11-05-69 8.5 12-03-69 8.5 1-03-70 8.4 2-04-70 7.8 3-02-70 7.0 4-06-70 5.6 5-06-70 6.4 6-01-70 7.9	132.7 131.5 131.5 131.6 132.2 133.0 134.4 133.6 132.1	5529	
16S/15E-02N02 M	226.0	2-03-70	95.0	131.0	5001						
16S/15E-34N04 M	334.0	10-22-69 546.4 11-19-69 546.3 12-17-69 548.8 1-15-70 550.2 2-11-70 550.0 3-11-70 531.6 4-08-70 541.7 5-08-70 540.4	-212.4 -212.3 -214.8 -216.2 -216.0 -197.6 -207.7 -206.4	5000							
16S/16E-10N01 M	187.0	10-01-69	128.8	58.2	5001						
17S/14E-13R01 M	457.0	12-15-69	772.0	-315.0	5050						
17S/16E-24R01 M	232.5	10-22-69	180.3	52.2	5000						
17S/16E-30A03 M	290.0	10-22-69 65.9 11-26-69 65.7 12-24-69 65.6 1-28-70 65.7 2-26-70 65.8 3-25-70 65.8 4-22-70 65.8 5-27-70 65.9	228.1 224.3 224.4 224.3 224.2 224.2 224.2 224.2	5000							
17S/16E-30A06 M	302.0	10-22-69 488.4 11-26-69 482.6 12-24-69 479.0 1-28-70 474.7 2-26-70 474.6 3-25-70 472.7 4-22-70 477.2 5-27-70 495.0	-186.4 -180.6 -177.0 -175.7 -175.6 -170.7 -175.2 -183.0	5000							
17S/17E-20N01 M	228.0	12-00-69	NM-7	5050							
18S/17E-12N01 M	253.0	12-00-69	NM-7	5050							
19S/18E-15M01 M	274.0	12-11-69	356.0	-82.0	5050						
20S/17E-32P01 M	447.0	12-00-69	NM-7	5050							
20S/18E-06D01 M	317.9	10-21-69 525.6 11-18-69 509.3 12-17-69 502.6 1-13-70 511.3 2-11-70 528.1 3-10-70 541.8 4-07-70 536.3 5-06-70 536.7	-207.7 -191.4 -184.7 -191.4 -210.2 -223.9 -216.4 -218.8	5000							
20S/18E-11N01 M	277.0	12-10-69	445.0	-169.0	5050						
20S/18E-11Q01 M	270.0	10-21-69 479.8 11-18-69 473.5 12-17-69 439.3 1-13-70 455.1 2-11-70 446.2 3-10-70 432.6 4-07-70 453.2 5-06-70 439.9	-209.8 -203.5 -169.3 -196.1 -178.3 -182.6 -183.2 -169.9	5000							
20S/18E-36D01 M	260.0	10-21-69	302.1	-42.1	5000						
21S/17E-22Q01 M	577.0	12-00-69	NM-7	5050							
21S/18E-28R02 M	363.0	10-21-69	347.5	15.5	5000						
POSO SOIL CONSERVATION DISTRICT						MERCED BOTTOMS					
			5-22-48					5-22-54			
10S/13E-06R01 M	110.0	10-02-69 7.4 11-05-69 8.3 12-03-69 8.3 1-03-70 8.1 2-04-70 8.1 3-02-70 8.8 4-06-70 7.8 5-06-70 12.7 6-01-70 13.3	102.6 101.7 101.7 101.9 101.9 101.2 102.2 97.3 96.7	5529		7S/10E-23K01 M	80.0	10-07-69 7.4 11-07-69 5.6 12-03-69 6.3 1-02-70 4.3 2-03-70 4.0 3-05-70 2.1 4-06-70 5.9 5-05-70 6.1 6-02-70 6.8	72.6 74.4 74.7 75.7 76.0 77.9 74.1 73.9 73.2	5050	
11S/13E-05Q01 M	117.0	10-02-69 9.9 11-05-69 10.6 12-03-69 10.8 1-03-70 10.7 2-04-70 10.9 3-02-70 10.7 4-06-70 11.4 5-06-70 11.9 6-01-70 11.9	107.1 106.4 106.2 106.3 106.1 106.3 105.6 105.1 105.1	5529		7S/10E-23K02 M	80.0	10-07-69 4.2 11-07-69 3.7 12-03-69 3.3 1-02-70 4.1 2-03-70 3.9 3-05-70 1.5 4-06-70 2.7 5-05-70 3.5 6-02-70 4.0	75.8 76.3 76.3 75.9 76.1 78.5 77.3 76.5 76.0	5050	
11S/13E-26A01 M	128.0	10-02-69 8.8 11-05-69 8.6	119.2 119.4	5529		7S/12E-27P01 M	110.5	10-01-69 9.5 11-03-69 10.0 12-01-69 9.8 1-05-70 8.8 2-02-70 8.0 3-05-70 8.0 4-01-70 5.5 5-04-70 6.7 6-03-70 8.0	101.0 100.5 100.7 101.7 102.5 102.5 105.0 103.8 102.5	5050	
						8S/12E-19D01 M	90.0	10-01-69 12.7 11-03-69 11.9 12-01-69 12.4 1-05-70 9.2 2-02-70 9.0 3-05-70 9.0 4-01-70 5.8 5-04-70 11.0 6-03-70 14.8	77.3 78.1 79.6 80.8 82.1 84.2 79.0 75.2	5050	
						9S/12E-01C01 M	110.5	10-01-69 NM-1 11-03-69 39.4 12-01-69 41.5 1-05-70 33.3 2-02-70 24.9 3-05-70 24.7 4-01-70 32.6 5-04-70 24.0 6-03-70 NM-1	71.1 77.2 77.9 85.5 85.8	5050	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MERCED BOTTOMS (Cont.)						KINGS COUNTY WATER DISTRICT					
			5-22.54					5-22.66			
9S/14E-01B01 M	180.0	10-01-69 103.1 11-03-69 75.0 12-01-69 65.0 1-05-70 58.8 2-02-70 53.2 3-05-70 52.8 3-26-70 52.0 5-04-70 54.0 6-03-70 85.7	103.1 75.0 65.0 58.8 53.2 52.8 52.0 54.0 85.7	70.9 105.0 114.4 121.2 124.8 127.2 127.4 96.0 94.3	5050	18S/21E-17N01 M (Cont.)	238.0	3-28-70 7.1 4-25-70 9.0 5-29-70 10.4	7.1 9.0 10.4	230.9 228.4 227.6	5129
9S/14E-01B02 M	180.0	10-01-69 88.6 11-03-69 72.7 12-01-69 63.7 1-05-70 57.3 2-02-70 54.1 3-05-70 51.9 3-26-70 51.9 5-04-70 78.8 6-03-70 80.6	88.6 72.7 63.7 57.3 54.1 51.9 51.9 78.8 80.6	51.4 107.3 110.3 122.7 125.9 128.1 128.1 101.2 99.4	5050	18S/22E-21N01 M	258.0	11-01-69 75.5 11-29-69 74.1 1-04-70 72.4 2-14-70 74.0 2-28-70 80.0 3-28-70 77.0 4-25-70 80.5 5-29-70 81.3	75.5 74.1 72.4 74.0 80.0 77.0 80.5 81.3	182.5 183.9 186.6 184.0 178.0 180.4 177.5 176.7	5129
9S/14E-01B03 M	180.0	10-01-69 37.4 11-03-69 37.4 12-01-69 37.3 1-05-70 37.4 2-02-70 37.1 3-05-70 36.8 3-26-70 36.8 5-04-70 37.0 6-03-70 37.0	37.4 37.4 37.3 37.4 37.1 36.8 36.8 37.0 37.0	142.6 142.6 142.7 142.6 142.9 143.1 143.4 143.2 143.0	5050	18S/22E-36P01 M	245.0	10-30-69 76.3 12-03-69 72.5 12-29-69 69.2 1-28-70 66.8 2-27-70 70.7 3-30-70 71.5 4-30-70 80.4 6-03-70 80.6	76.3 72.5 69.2 66.8 70.7 71.5 80.4 80.6	168.7 172.5 175.8 178.2 174.3 173.5 184.0 158.4	5001
9S/14E-00D01 M	141.0	10-01-69 40.9 11-03-69 40.5 12-01-69 40.7 1-05-70 40.7 2-02-70 40.0 3-05-70 39.5 3-26-70 38.3 5-04-70 39.1 6-03-70 39.7	40.9 40.5 40.7 40.7 40.0 39.5 38.3 39.1 39.7	100.1 100.5 100.3 100.3 101.0 101.5 102.7 101.9 101.3	5050	18S/23E-28B01 M	263.0	11-01-69 89.6 11-29-69 86.9 1-04-70 84.3 2-14-70 81.9 2-28-70 81.1 3-28-70 NM-1 4-25-70 86.7 5-29-70 90.1	89.6 86.9 84.3 81.9 81.1 NM-1 86.7 90.1	173.4 176.1 178.7 181.1 181.9 176.3 172.9	5129
GARFIELD WATER DISTRICT						19S/21E-20N01 M	225.0	11-01-69 8.1 11-29-69 8.2 1-04-70 0.9 2-14-70 7.0 2-28-70 7.6 3-28-70 9.8 4-25-70 6.7 5-29-70 7.8	8.1 8.2 0.9 7.0 7.6 9.8 6.7 7.8	216.9 216.8 218.1 218.0 217.4 215.2 218.3 217.2	5129
			5-22.65			19S/22E-04B01 M	245.0	11-01-69 77.1 11-29-69 75.2 1-04-70 73.9 2-14-70 72.0 2-28-70 72.7 3-28-70 77.1 4-25-70 80.8 5-29-70 82.8	77.1 75.2 73.9 72.0 72.7 77.1 80.8 82.8	167.9 169.8 171.1 173.0 172.3 167.9 164.2 162.2	5129
12S/20E-13A01 M	388.0	10-02-69 114.5 10-29-69 114.0 11-28-69 114.5 12-31-69 110.0 2-02-70 108.2 2-27-70 107.5 3-30-70 107.8 4-29-70 108.2 5-28-70 109.5	114.5 114.0 114.5 110.0 108.2 107.5 107.8 108.2 109.5	273.5 274.0 273.5 278.0 279.8 280.5 280.2 279.8 278.5	5001	19S/22E-19A01 M	235.0	10-22-69 79.8 11-24-69 74.7 12-22-69 72.4 1-20-70 70.2 2-24-70 69.2 3-23-70 77.0 4-21-70 102.0 5-25-70 112.9	79.8 74.7 72.4 70.2 69.2 77.0 102.0 112.9	155.2 160.3 162.6 164.8 165.8 158.0 133.0 122.1	5001
12S/21E-07A02 M	405.5	10-02-69 130.6 11-28-69 126.0 12-31-69 125.1 2-02-70 124.1 2-27-70 123.7 3-30-70 123.2 4-29-70 122.8 5-28-70 121.4	130.6 126.0 125.1 124.1 123.7 123.2 122.8 121.4	274.9 284.7 280.4 281.4 281.8 282.3 282.7 284.1	5001	19S/22E-23A01 M	240.0	11-01-69 84.2 11-29-69 69.0 1-04-70 67.5 2-14-70 66.6 2-28-70 69.0 3-23-70 71.6 4-25-70 75.4 5-29-70 73.8	84.2 69.0 67.5 66.6 69.0 71.6 75.4 73.8	155.8 171.0 172.5 173.4 171.0 168.4 164.6 166.2	5129
12S/21E-18A03 M	390.5	10-02-69 97.8 10-29-69 107.4 11-28-69 94.5 12-31-69 97.2 2-02-70 93.5 2-27-70 93.0 3-30-70 92.7 4-29-70 93.1 5-28-70 92.8	97.8 107.4 94.5 97.2 93.5 93.0 92.7 93.1 92.8	292.7 283.1 296.0 293.3 297.0 297.5 297.8 297.4 297.7	5001	20S/21E-03A01 M	220.0	2-23-70 10.4	10.4	209.6	5129
KINGS COWWY WATER DISTRICT						20S/21E-05E01 M	219.0	11-01-69 136.0 11-29-69 133.6 1-04-70 136.1 2-14-70 128.9 2-28-70 126.3 3-28-70 124.1 4-29-70 119.0 5-29-70 122.6	136.0 133.6 136.1 128.9 126.3 124.1 119.0 122.6	83.0 85.4 86.9 90.1 92.7 94.9 100.0 96.4	5129
17S/20E-36R02 M	243.0	11-01-69 13.8 11-29-69 13.1 1-04-70 13.1 2-14-70 16.4 2-28-70 16.8 3-28-70 16.1 4-25-70 17.2 5-29-70 14.8	13.8 13.1 13.1 16.4 16.8 16.1 17.2 14.8	229.2 229.9 229.9 226.6 226.2 226.9 225.8 228.2	5129	PLEASANT VALLEY					
17S/22E-11P01 M	283.0	11-01-69 16.5 11-29-69 15.7 1-04-70 15.2 2-14-70 14.8 2-28-70 15.0 3-28-70 15.6 4-25-70 16.0 5-29-70 15.6	16.5 15.7 15.2 14.8 15.0 15.6 16.0 15.6	266.5 267.3 267.5 268.2 268.0 263.4 265.0 267.4	5129	20S/15E-32A01 M	675.0	12-17-69 232.0	232.0	443.0	5050
17S/22E-35N01 M	266.0	11-01-69 30.5 11-29-69 28.8 1-04-70 26.9 2-14-70 26.1 2-28-70 25.8 3-28-70 29.5 4-25-70 30.0 5-29-70 31.2	30.5 28.8 26.9 26.1 25.8 29.5 30.0 31.2	235.5 237.2 239.1 239.9 240.2 236.5 236.0 234.8	5129	21S/16E-02N01 M	570.0	4-00-70 NM-7	NM-7		5050
18S/21E-17N01 M	238.0	11-01-69 NM-1 11-29-69 7.6 1-04-70 7.4 2-14-70 NM-1 2-28-70 6.8	NM-1 7.6 7.4 NM-1 6.8	230.4 230.6 230.6 231.4	5129	21S/16E-07N01 M	634.0	12-17-69 248.0	248.0	386.0	5050
						21S/16E-35D01 M	682.0	12-17-69 327.0	327.0	355.0	5050

TABLE C-4
GROUND WATER RECHARGE
Amounts Applied in Acre-Feet

GROUND WATER DISTRICTS OR AREAS		SOURCE OF SUPPLY	1967-68			1968-69			1969-70		
NAME	NUMBER		METHOD	AMOUNT	TOTAL	METHOD	AMOUNT	TOTAL	METHOD	AMOUNT	TOTAL
Alpaugh I. D. Western Portion of Alpaugh-Aikenworth Area	5-22.34	CVP Pumping Plants							c n a p	100 100 40 100	340
Arvin-Edison M. S. D. Eastern Portion of Edison-Merced Area	5-22.41	CVP Kern Co. Canal District Wells	n	32,461	32,461	a	98,766	98,766	a	35,588	35,588
Buena Vista M. S. D.	5-22.42	CVP Kern River Buena Vista Lake Cal. Aqueduct	n c	19,000 24,392	43,392	n c o	138,000 55,000 53,000	246,000	c n	32,740 13,060	45,800
Chowchilla M. O.	5-22.12	CVP & Chowchilla River	a a	6,000 3,880	9,880	n c a o r	72,904 1,400 48,402 5,000 28,569	155,975	n c a o p	33,362 1,000 22,241 500 23,692	80,795
Consolidated I. D.	5-22.18	Kings River				c a	75,000 150,000	225,000	n c	111,000 14,000	125,000
Corcoran I. D.	5-22.46	Kings River Croce Creek				c a r	32,000 54,516 57,000	123,516	c a p	10,500 6,250 87,624	104,376
Delano-Earlhart I. D.	5-22.35	CVP	n a i	2,137 647 494	3,256	n a i	3,060 922 85	4,067	n a i	2,537 519 73	3,129
Devil's Den M. D. NW Kern County between State Hwy 13 & Coastal Branch of Calif. Aqueduct	5-22.45	Cal. Aqueduct	c p	300 1,900	2,200						
Dudley Ridge M. D. Western Portion of Tulare Lake-Lost Hills Area	5-22.45	Cal. Aqueduct	c p	900 3,600	4,500	c p	950 4,300	5,250	c p	1,300 5,900	7,200
El Nido I. D.	5-22.10	Merced I. O. Mariposa and Deadman Creeks	c o	49 2,510	2,559	a o p	3,038 2,500 3,987	9,525			
Exeter I. D.	5-22.26	CVP & Kaweah R. & Foothill Ditch Co.	n	660	660	n p	1,042 46	1,088	n	592	592
Fresno I. D.	5-22.15	CVP & Kings River	n c a o p	437 73,362 60 1,007 125,166	200,032	n c a o p	8,142 80,750 12,272 3,344 137,209	241,708	n c a o p	1,120 91,282 9,486 611 155,150	257,649
Hacienda M. D. Southern Portion of Tulare Lake-Lost Hills Area	5-22.45	Kern River				a c o	3,000 2,900 25,000	30,000			
Ivenhoe I. D.	5-22.23	CVP & Mutchama Water Co.	n a p	867 568 314	1,749	n a p	1,017 1,021 992	3,030	n a p	391 24 456	871
Laguna I. D. Northern Portion of the Lower Kings River Area	5-22.20	CVP & Pine Flat Dam							a	160	160
Lakeside I. D. Western Portion of the Kaweah Delta M. S. D.	5-22.24	CVP & St. Johns River	n c a p	10,302 6,737 4,716 1,100	22,855	a c a p	39,900 13,300 16,000	69,200	n c p	8,650 23,310 6,930	38,890
Lindmore I. O.	5-22.28	CVP				a	75	75			
Lindsay-Birchmore I. D.	5-22.27	CVP & Mutchama Water Co.	p	28,613	28,613						
Lower Tule River I.O.	5-22.10	CVP Tule River	n c a o p	21,504 40,908 11,095 3,726 4,528	81,762	n & c a o p	136,706 20,382 3,744 15,384	176,216	n & c a o p	84,996 12,590 7,934 3,359	108,879
Madera I. D.	5-22.13	CVP & Fresno River	n c a p	2,929 43,424 4,636 68,907	116,176	n c a p	8,741 62,037 11,215 42,374	124,367	n c a p	10,242 59,981 4,888 115,228	190,337
North Kern M. S. D.	5-22.37	Kern River & Poso Creek	c a p	4,592 24,695 135,337	164,604	n c a p	38,596 37,103 151,810 21,878	229,407	n a p	7,709 34,862	42,571
Pinley I. D.	5-22.33	CVP	n,c,a,o	6,624	6,624						
Porterville I. D.	5-22.29	CVP & Tule River				n c a p	5,500 3,000 1,500 2,000	12,000	n c a p	8,000 4,000 3,000	15,000
Rosedale-Rio Bravo M. S. D. Northern Portion of the Kern River Delta Area	5-22.40	Kern River				n c a p	23,600 24,400 19,720 7,873	75,743	n c a p	11,612 11,600 10,000 24,100	57,312
Seacrest I. D.	5-22.32	CVP Mole Ditch	p	1,100	1,100	n c	630 1,241	1,871			
Stratford I. D. Northern Portion of Tulare Lake-Lost Hills Area	5-22.45	Leimore Canal Kings River				c p	5,960 3,600	9,560			
Terre Bella I. D.	5-22.50	CVP Deer Creek Division	c	763	763	o	155	155	c	400	400
Tulare I. D.	5-22.25	CVP Kaweah River	n,c,a,o	46,961 2,665	49,626						
Vandellie I. D.	5-22.31	Tule River	a	2,050	2,050				a	1,800	1,800

Record published as received from districts and agencies.

CVP Central Valley Project
n Natural stream channels
c Canals
a Artificial recharge basins
o Open land spreading
i Injection method
p Other-percolation from irrigation
e No method indicated



APPENDIX D

SURFACE WATER QUALITY



INTRODUCTION

Appendix D summarizes the surface water quality and electrical conductivity data for the San Joaquin Valley for 1970 water year (October 1, 1969 through September 30, 1970). These data were obtained from analyses of water samples from 20 surface water quality sampling stations and 6 electrical conductivity recorders. Water samples are collected by the Department of Water Resources; the U. S. Corps of Engineers; U. S. Forest Service; California Regional Water Quality Control Board - Central Valley Region; and Kern County Department of Parks and Recreation. Electrical conductivity recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight-digit identification number. The first two digits denote the drainage basin as shown below. The remaining digits identify each station.

HYDROLOGRAPHIC AREA B SAN JOAQUIN RIVER BASIN

B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
- Tehachapi Mountains
C7 - Tulare Lake Basin on West Side

TABLE D-1
SURVEILLANCE STATION DATA AND INDEX
FOR
SURFACE WATER

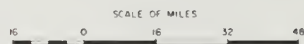
	Station Identification Number	Location ^a	Period of Record	Frequency of Sampling ^c	Sampled By ^d	Analysis on Page
Big Creek above Pine Flat Reservoir	C11320.00	12S/25E- 4	July 1960	M ^e	USACE	194
Blackburn Creek at West Ranch near Dan's A Frame	C61555.30	11N/15W- 1				195
Chiquito Creek at Highway 100	B71548.30	6S/24E-20				197
Chowchilla River near Raymond	B64200.00	8S/18E- 1	January 1962	S	DWR	192
Delta-Mendota Canal near Mendota Pool	B00770.00	13S/15E-19	July 1952	Q	DWR	192
Dinkey Creek above Balch Camp	C12090.30	12S/26E-12				197
Dry Creek below H Street	C15130.30	14S/20E-05				198
Fresno River above Lev Lumber Co.	B67319.30	7S/21E-15				197
Fresno River below Lev Lumber Co.	B67316.30	7S/21E- 9				194, 197
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	S	DWR	193
Griswold Creek below Cal-Merc Inc.	B81160.30	16S/12E-16				194, 197
Kaweah River at Three Rivers	C21250.00	17S/28E-27	April 1951	M ^e	USACE	194
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	S	USACE	193
Kern River above Calloway Weir	C05145.30	29S/28E- 9				197
Kern River at Kernville	C51500.00	25S/33E-15				198
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	S	USACE	194
Kern River near Bakersfield	C05150.00	29S/28E- 9	April 1951	S	KCPR	194, 197
Kings River below North Fork	C11460.00	12S/26E-21	September 1955	M ^e	USACE	194
Kings River below Peoples Weir	C01140.00	17S/22E- 1	April 1951	S	DWR	193
Kings River below Pine Flat Reservoir	C11140.00	13S/24E- 2	September 1955	S	USACE	194, 197
Kings River North Fork at Balch Camp	C12250.00	12S/26E-10				198
Kings River north of Empire Weir No. 1	C01122.30	19S/19E-36				195, 197
Lillockin Creek at Old Barn on Wyman Ranch	C61550.30	12N/15W-35				195
Little Creek at Highway 65 Bridge	C44050.30	27S/27E- 8				195
Manzanita Lake at North Fork Water Supply	B71286.50	8S/22E-12				194, 200
Mendota Pool south of Dam	B00050.30	13S/15E-20				194, 197
Merced River at Milliken Bridge	B05131.00	6S/ 9E-36	April 1951	S	DWR	192, 197
O'Neill Forebay near Aqueduct Intake	B00740.30	10S/ 9E- 7				197
Poso Creek at Head of Diversion Canal	C04452.30	27S/27E-30				195
Poso Creek at Zerk Road	C04446.30	27S/26E-23				195
Salt Slough near Stevinson	B00470.00	8S/10E-10	October 1969	S	DWR	192, 200
San Carlos Creek below New Idria Mine	B91180.30	17S/12E-29				194, 197
San Joaquin River at Fremont Ford	B07375.00	7S/ 9E-24	July 1955	S	DWR	193, 197, 200
San Joaquin River at Maze Road Bridge	B07040.00	3S/ 7E-33	April 1951	S	DWR	192
San Joaquin River below Friant	B07885.00	11S/21E- 7	April 1951	S	DWR	193
San Joaquin River near Grayson at Laird Slough	B07080.00	4S/ 7E-24	April 1959	Q	DWR	193
San Joaquin River near Mendota	B07710.00	13S/15E- 7	April 1951	S	DWR	193
San Joaquin River near Vernalis	B07020.00	3S/ 6E-13	April 1951	M	DWR	192, 197, 200
Stanislaus River at Koetitz Ranch	B03115.00	3S/ 7E- 2	April 1951	S	DWR	192, 197
Tejon Creek	C62050.30	12N/18W-28				195
Tule River below Success Dam	C03106.00	21S/26E-35	July 1952	S	USACE	193, 197
Tule River near Springville	C31150.00	21S/29E-15	November 1963	M ^e	USACE	194
Tuolumne River at Hickman Bridge near Waterford	B04150.00	3S/11E-34	April 1951	S	DWR	192
Tuolumne River at Tuolumne City	B04105.00	4S/ 8E-12	April 1951	S	DWR	192, 197
Willow Creek North Fork above Bass Lake	B71220.00	8S/23E- 9				197
Willow Creek South Fork above Highway 100	B71245.30	8S/23E-18				194, 197

- a. Locations are in reference to Mt. Diablo Base and Meridian
b. Beginning of record - regular stations only
c. M - Monthly, Q - Quarterly, S - Semiannually - all others irregular
d. DWR - Department of Water Resources, USACE - United States Army Corps of Engineers,
KCPR - Kern County Parks and Recreation
e. Discontinued in December 1969

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

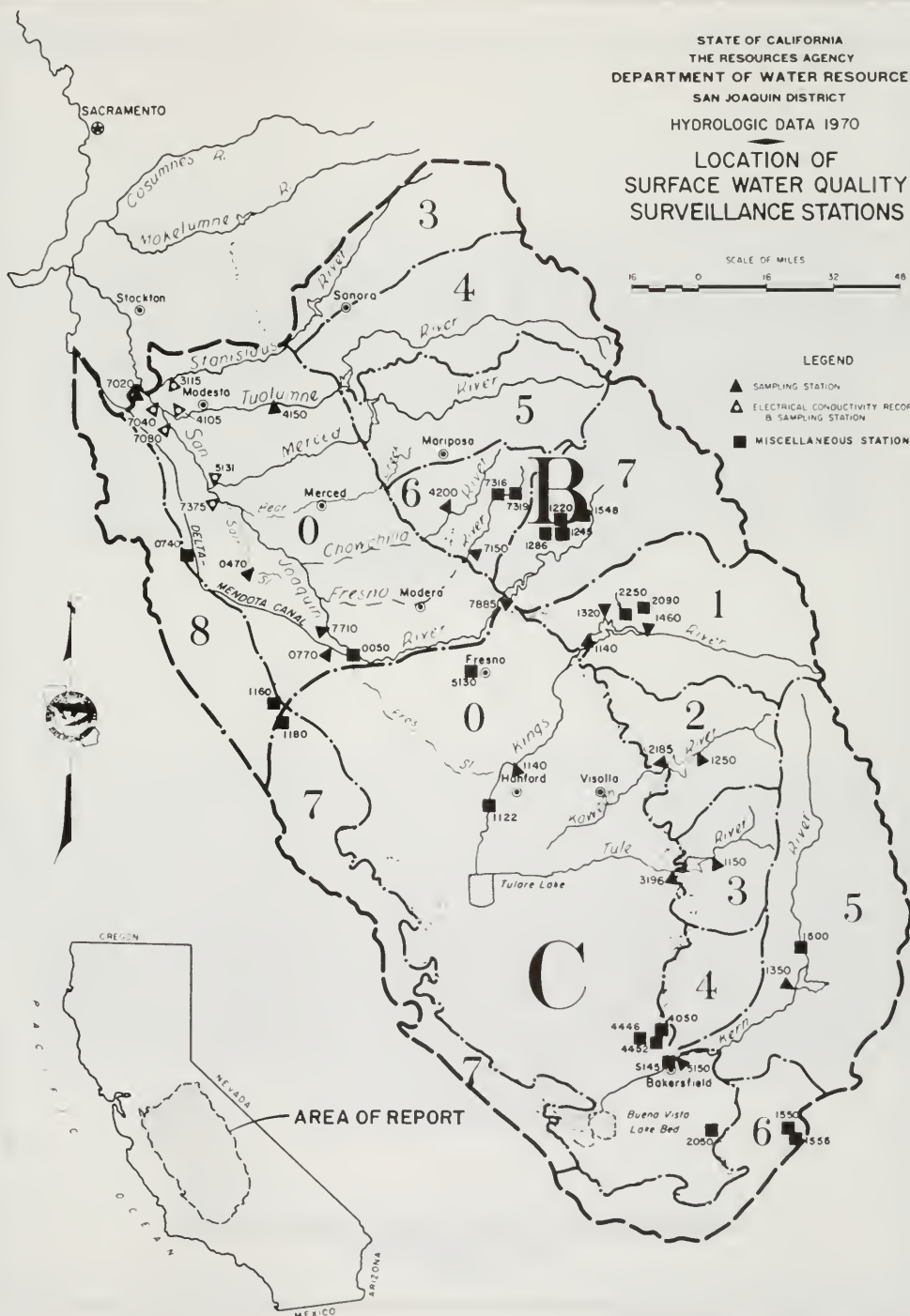
HYDROLOGIC DATA 1970

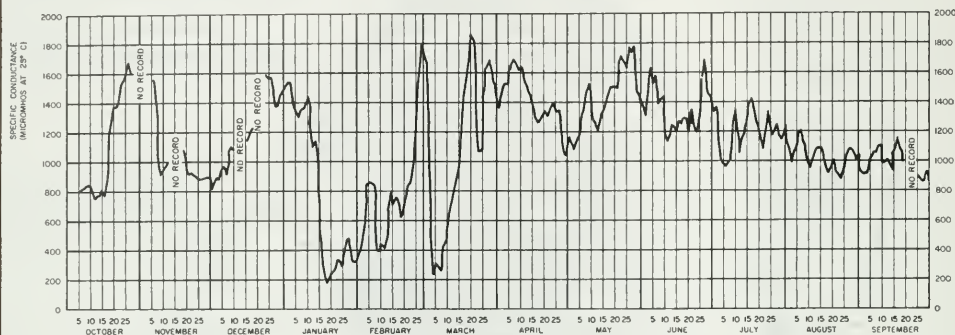
LOCATION OF
SURFACE WATER QUALITY
SURVEILLANCE STATIONS



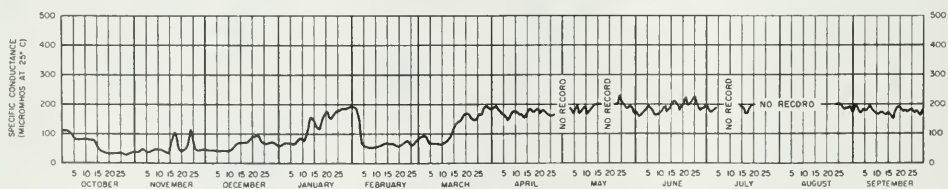
LEGEND

- ▲ SAMPLING STATION
- △ ELECTRICAL CONDUCTIVITY RECORDER
B SAMPLING STATION
- MISCELLANEOUS STATIONS





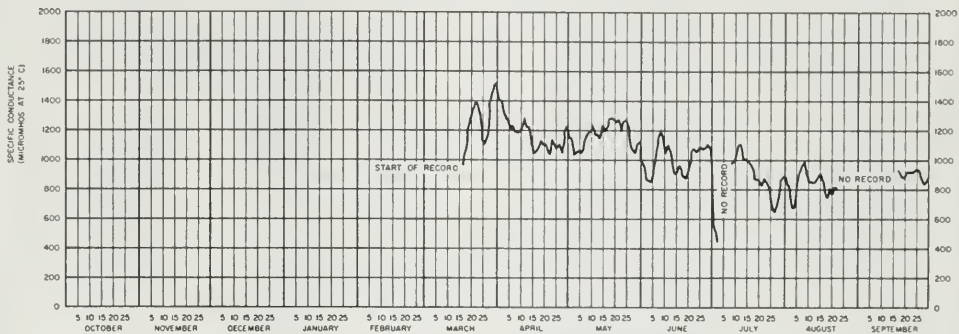
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE
STA. No. B07375.00 RIVER MILE 129.5



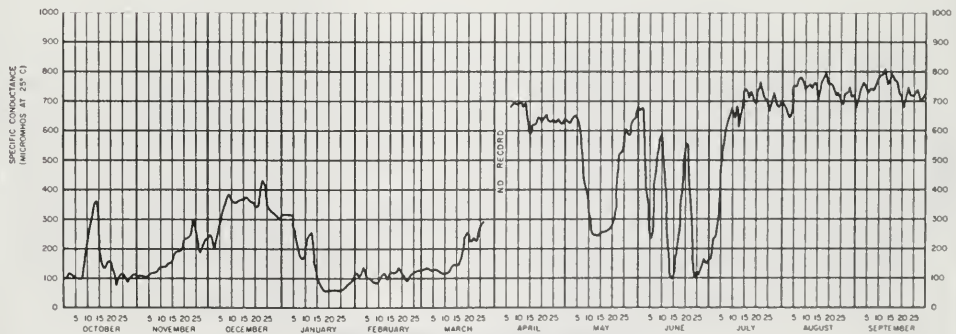
MERCED RIVER AT MILLIKEN BRIDGE
STA. No. B05131.00 RIVER MILE 11.65

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY

1970

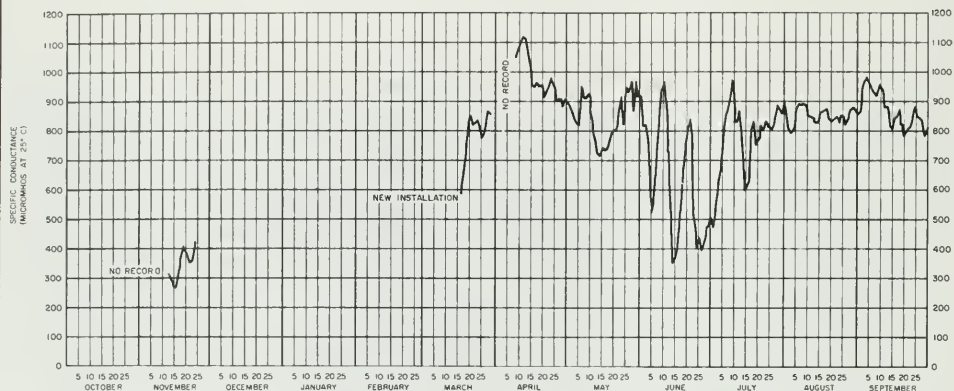


SAN JOAQUIN RIVER NEAR GRAYSON AT LAIRD SLOUGH
STA. No. B07080.00 RIVER MILE 96.05

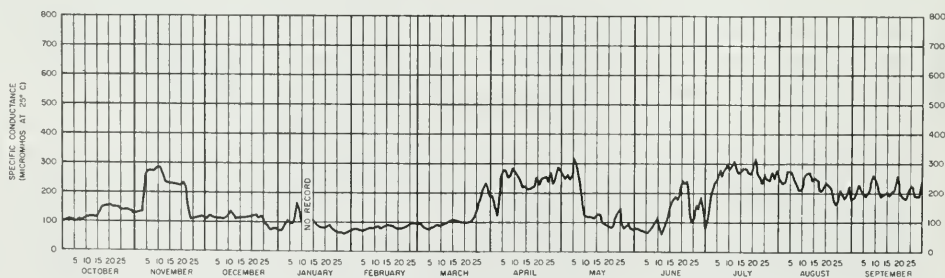


TUOLUMNE RIVER AT TUOLUMNE CITY
STA. No. B04105.00 RIVER MILE 3.35

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1970



SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. B07040.00 RIVER MILE 81.95



STANISLAUS RIVER AT KOETITZ RANCH
STA. No. B03115.00 RIVER MILE 9.4

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1970

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources Bryte Laboratory (coded 5050) or the U. S. Geological Survey Sacramento Laboratory (coded 5000).

The sampler codes are as follows:

5002	U. S. Army Corps of Engineers
5005	U. S. Forest Service
5050	Department of Water Resources
5055	California Regional Water Quality Control Board - Central Valley Region
5060	California Department of Public Health
5633	Kern County Parks and Recreation Department
5647	Tehachapi Cummings County Water District

The following are definitions of chemical symbols and of abbreviations used in this table.

<u>Chemical Symbols</u>	<u>Abbreviations</u>
Ca Calcium	TEMP Temperature
Mg Magnesium	DO Dissolved Oxygen in mg/l
Na Sodium	SAT Per Cent Saturation
K Potassium	GH Gage Height in feet
CO ₃ Carbonate	Q Flow in cfs
HCO ₃ Bicarbonate	FLD Field Determination
SO ₄ Sulfate	LAB Laboratory
CL Chloride	EC Electrical Conductance in micromhos
NO ₃ Nitrate	pH Measure of acidity or alkalinity of water
F Fluoride	TDS Total Dissolved Solids
B Boron	TH Total Hardness
SiO ₂ Silica	NCH Non-carbonate Hardness

TABLE O-2
MINERAL ANALYSES OF SURFACE WATER

Date	Samp.	Lab. No.	D.O.	G.N.	Fld. EC	Fld. pH	Mineral Constituents in										Milligrams per Liter				Milligrams per Liter				
Time	Lab.	Temp.	PSAT	Q	Lab. EC	Lab. pH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH					
																					NCM				
B00470.00																									
SALT SLOUGH NEAR STEVINSO																									
70-02-11	5050	63441			2840	7.5	109	5.44	57	426	6.0	0	151	656	442	5.5		4.1		1870	506				
	5050								5.44	18.53	0.15	0.00	2.47	13.66	12.47	0.09				382					
70-02-18	5050	64712	6.4	65.51	1000	7.7	46	20	109	4.2	0	159	96	146	6.8		0.3		517	196					
1000	5050	78			922	7.9	2.30	1.62	4.74	0.11	0.00	2.61	2.00	4.12	0.11										
70-04-06	5050	63818	9.8	66.55	1550	8.0	90	36	217	6.6	8	164	331	244	17	1.9		1050	373						
1645	5050	85			1700	8.5	4.51	2.95	5.44	0.17	0.27	2.69	6.89	6.88	0.27				225						
B00770.00																									
DELTA MENDOTA CANAL NEAR MENDOTA																									
70-01-14	5050	62673	12.3		380	8.1			64			0	101		80		0.3			111					
0935	5050	51			536	7.6			2.78			0.00	1.66		2.26				28						
70-04-08	5050	63814	9.2		400	7.5	21	10	37	2.3	0	75	50	45	3.3		0.2		213	55					
1615	5050	64			384	8.1	1.07	0.83	1.61	0.06	0.00	1.23	1.04	1.27	0.05				33						
70-07-08	5050	63984	5.7		300	7.6			34			0	84		38		0.1			97					
1040	5050	78			349	7.8			1.48			0.00	1.38		1.07				28						
70-08-03	5050	64706	7.4	15.4	250	7.5	17	10	38	2.4	0	78	27	51	2.9		0.0		213	85					
0915	5050	77			350	7.7	0.85	0.85	1.65	0.06	0.00	1.28	0.56	1.44	0.05										
70-09-10	5050	65255	7.0		560	7.9			70			0	139		106		0.3			161					
0845	5050	74			673	7.7			3.04			0.00	2.28		2.99				47						
B03115.00																									
STANISLAUS RIVER AT KOETITZ RANCH																									
70-04-06	5050	63824	9.3		277	7.3	26	10	16	2.5	2	129	17	7.4	7.6		0.0		165	107					
1515	5050	86				8.4	1.27	0.85	0.70	0.06	0.07	2.11	0.35	0.21	0.12				0						
70-08-05	5050	66134	8.8	27.78	290	7.6	27	10	15	2.4	0	139	14	8.0	8.5		0.0		168	110					
0700	5050	70			282	7.7	1.35	0.85	0.65	0.06	0.00	2.28	0.29	0.22	0.14										
B04105.00																									
TUOLUMNE RIVER AT TUOLUMNE CITY																									
70-04-06	5050	63832	10.8		625	7.6	39	13	62	5.3	2	132	14	113	8.5		0.0		350	145					
1415	5050	86				8.4	1.94	1.05	2.70	0.14	0.07	2.16	0.29	3.19	0.14				37						
70-08-05	5050	64723	9.6	23.67	750	7.9	48	11	80	5.2	0	150	13	145	10		0.1		442	166					
1015	5050	74			750	8.0	2.40	0.92	3.48	0.13	0.00	2.46	0.30	4.09	0.16										
B04150.00																									
TUOLUMNE RIVER AT HICKMAN BRIDGE NEAR WATERFORD																									
70-04-06	5050	63822	10.7		475	8.4	26	10	49	4.2	0	91	4.8	96	1.9		0.0		286	107					
1525	5050	71			477	8.0	1.32	0.82	2.13	0.11	0.00	1.49	0.10	2.71	0.03				32						
70-08-03	5050	64714	12.5		400	8.3	25	12	50	4.4	0	119	7.2	84	5.8		0.0		314	121					
1215	5050	85			510	8.0	1.45	0.97	2.18	0.11	0.00	1.85	0.18	2.37	0.09										
B05131.00																									
MERCED RIVER AT MILLIKEN BRIDGE																									
70-04-06	5050	63820	10.9		145	7.4	13	3.9	12	1.6	0	66	7.6	4.8	4.6		0.0		88	48					
1230	5050	84				8.0	0.63	0.32	0.52	0.04	0.00	1.08	0.16	0.14	0.07				0						
70-08-04	5050	64722	9.0		210	7.6	15	6.9	17	2.2	0	88	9.2	8.0	8.8		0.0		129	66					
1315	5050	79			237	8.3	0.75	0.57	0.74	0.06	0.00	1.44	0.19	0.22	0.14										
B07020.00																									
SAN JOAQUIN RIVER NEAR VERNALIS																									
69-10-08	5050	59330			300		16	7.6	33	2.0	0	74	23	40	2.1	0.1	0.05	13		72					
	5000		1.7		312	7.4	0.80	0.63	1.44	0.05	0.00	1.21	0.48	1.13	0.03				11						
69-11-07	5050	59524	8.9	16.41	260	7.2	13	6.1	26	1.7	0	59	21	34	1.5	0.1	0.05	10		58					
0611	5000	56			253	7.3	0.65	0.50	1.13	0.04	0.00	0.97	0.44	0.96	0.02				10						
69-12-05	5050	59669	10.2	15.62	350	7.4	17	7.9	36	1.8	0	67	37	40	2.6	0.1	0.15	11		75					
0901	5000	50			336	7.3	0.85	0.65	1.57	0.05	0.00	1.10	0.77	1.13	0.04				20						
70-01-14	5050	59883	10.9	15.07	460	7.3	23	12	58	2.1	0	91	64	62	3.3	0.2	0.29	13		126					
1221	5000	54	2.4		495	7.4	1.15	1.22	2.52	0.05	0.00	1.49	1.33	1.75	0.05										
70-02-04	5050	59942	8.8		346	8.4	17	8.2	38	1.9	0	68	45	40	2.3	0.1	0.21	13		76					
0900	5000	51				7.3	0.85	0.67	1.65	0.05	0.00	1.11	0.94	1.13	0.04				20						
70-03-18	5050	60141	9.6	16.56	525	7.5	25	12	53	2.0	0	91	62	65	2.7	0.1	0.19	16		112					
1301	5000	58			498	7.5	1.25	0.99	2.31	0.05	0.00	1.49	1.29	1.83	0.04				37						
70-04-15	5050	60231	10.5	12.48	900	7.7	44	22	94	3.8	0	156	96	130	6.8	0.3	0.34	20		200					
1141	5000	60			846	7.6	2.20	1.81	4.09	0.10	0.00	2.56	2.00	3.67	0.11				72						
70-05-13	5050	60366	10.2	13.32	500	8.0	25	13	55	2.4	0	100	58	71	3.7	0.1	0.22	15		116					
1131	5000	65			513	8.1	1.25	1.07	2.39	0.06	0.00	1.64	1.21	2.00	0.06				34						
70-06-17	5050	60667	11.1	12.53	490	8.0	26	13	51	2.6	0	100	54	67	5.0	0.1	0.32	19		118					
1016	5000	69			464	7.1	1.30	1.07	2.22	0.07	0.00	1.64	1.12	1.89	0.08				36						
70-07-15	5050	60873	9.5	10.66	1000	8.3	46	23	97	3.2	0	170	68	146	6.8	0.1	0.11	15		210					
0646	5000	75			876	7.7	2.30	1.89	4.22	0.08	0.00	2.79	1.42	4.12	0.11				71						
70-08-18	5050	61149	10.2	10.68	890	8.2	45	22	98	3.9	0	170	70	138	5.6	0.2	0.26	20		203					
1121	5000	77			859	7.5	2.25	1.81	4.26	0.10	0.00	2.79	1.46	3.89	0.09				64						
70-09-16	5050	61394	8.5	10.89	900	7.7	43	20	94	4.2	0	170	64	128		0.3	0.15	24		190					
1001	5000	69			818	7.7	2.15	1.65	4.09	0.11	0.00	2.79	1.33	3.61					51						
B07040.00																									
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																									
70-04-07	5050	63823	9.8		1110	7.5	54	26	134	4.2	9	161	138	172	9.3		0.6		638	242					
1015	5050	62				8.6	2.67	2.16	5.83	0.11	0.30	2.64	2.87	4.85	0.15				95						
70-08-05	5050	64715	9.0		900	7.9	49	24	108	4.6	0	176	83	152	12		0.2		526	222					
0830	5050	74			938	7.9	2.44	2.00	4.70	0.12	0.00	2.88	1.73	4.29	0.19										

TABLE D-2 (Continued)
MINERAL ANALYSES OF SURFACE WATER

Date		Samp. Lab. No.		O.H. Pld. EC:Pld. pH		Mineral Constituents in Milliequivalents per Liter										Milligrams per Liter				
Time	Lab.	Temp.	PSAT	Q	Lab.	EC:Lab. pH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NH ₄	P	B	SIO ₂	TDS	TH
BOT080.00 SAN JOAQUIN RIVER NEAR ORAYSON AT LAIRD SLOUGH																				
70-01-14	5050	62672	10.7		1000	7.9														
1145	5050	54			868	7.3														
70-04-06	5050	63821	11.2		1260	7.9	57	33	156	4.0	7	161	201	184	10		0.8		740	277
1335	5050	65				8.5	2.85	2.69	6.79	0.10	0.23	2.64	4.19	5.19	0.16				133	
70-07-07	5050	63904	11.3		825	8.1														
1315	5050	79			954	8.0														
70-06-05	5050	64713	9.8		500	8.1	44	26	106	3.8	0	176	108	132	12		0.3		525	218
0930	5050	73			928	7.5	2.20	2.16	4.67	0.10	0.00	2.88	2.25	3.72	0.19					
70-09-10	5050	65526	7.1		950	8.1														
1000	5050	75			1010	7.3														
BOT375.00 SAN JOAQUIN RIVER AT FREMONT FORD																				
70-02-11	5050	63442			419	7.3	22	7.3	51	1.8	0	67	70	1.46	48		0.5		250	85
	5050						1.10	0.60	2.22	0.05	0.00	1.10	70	1.46	1.35	1.2			30	
70-04-06	5050	63819	9.0		1660	7.6	84	35	213	6.0	9	153	290	260	13		1.5		1010	356
1050	5050	84				8.5	4.19	2.91	5.27	0.15	0.30	2.51	6.17	7.33	0.21				216	
70-06-18	5050	64721	8.0	55.94	990	7.9	50	20	118	4.8	0	170	87	162	4.2		0.2		542	207
1020	5050	78			1010	8.3	2.50	1.64	5.13	0.12	0.00	2.75	1.81	4.57	0.07					
BOT710.00 SAN JOAQUIN RIVER NEAR MENDOTA																				
70-04-08	5050	63815	10.2		3.64	580	29	14	59	2.7	0	97	70	76	4.1		0.3		318	132
1635	5050	66			556	8.2	1.46	1.18	2.57	0.07	0.00	1.59	1.46	2.14	0.07				52	
70-06-03	5050	64709	8.3		392	7.6	20	10	42	2.4	0	83	31	56	3.3		0.1		232	52
0940	5050	78					1.00	0.84	1.83	0.06	0.00	1.36	0.64	1.58	0.05					
BOOT885.00 SAN JOAQUIN RIVER BELOW PRIANT																				
70-04-06	5050	63813	10.6		1.87	55	6.8	4.8	0.9	5.4	0.9	2	24	2.6	3.2	2.1		0.0	34	16
0830	5050	53			57	7.6	0.24	0.07	0.23	0.02	0.00	0.39	0.05	0.09	0.03				0	
70-06-03	5050	64707	13.7	2.05	48	8.0	3.5	0.8	3.1	0.9	3	9	0.3	2.4	1.5		0.0		40	12
1600	5050	66			68	8.4	0.17	0.07	0.13	0.02	0.10	0.15	0.01	0.07	0.02					
B64200.00 CHOWCHILLA RIVER NEAR RAYMOND																				
70-04-06	5050	63817	9.5	569.73	180	7.2	16	0.78	3.8	15	2.0	0	82	3.3	11	0.0			105	54
1105	5050	67			173	8.2	0.31	0.31	0.65	0.05	0.00	1.34	0.07	0.31	0.00				0	
70-06-03	5050	64711	7.2		1500	7.6	145	3.8	152	6.0	0	117	4.5	426	0.4		0.1		1170	378
1425	5050	80			1560	7.8	7.24	0.31	6.61	0.15	0.00	1.92	0.15	12.02	0.01					
B67150.00 FRESNO RIVER NEAR DAULTON																				
70-04-06	5050	63816	9.9		130	7.4	10	2.3	10	1.3	0	53	2.6	6.6	0.0		0.0		96	34
1015	5050	61			114	8.0	0.50	0.19	0.44	0.03	0.00	0.87	0.05	0.19	0.00				0	
70-06-03	5050	64710	8.2		85	8.3	15	3.5	23	2.3	0	54	3.3	37	0.1		0.0		146	52
1510	5050				234	8.2	0.75	0.29	1.00	0.06	0.00	0.88	0.07	1.04	0.00					
C01140.00 KINOS RIVER BELOW PEOPLES WEIR																				
70-04-08	5050	63826	10.1	6.13	88	7.2	7.6	1.9	5.4	1.1	0	37	4.4	2.0	1.5		0.0		50	27
1430	5050	62			80	7.8	0.38	0.16	0.23	0.03	0.00	0.61	0.06	0.06	0.02				0	
70-06-03	5050	66135	9.5	7.3	60	7.0	4.8	1.0	2.7	1.0	0	23	1.5	1.4	0.4		0.0		32	16
0740	5050	65			48	7.1	0.24	0.06	0.12	0.02	0.00	0.38	0.03	0.04	0.01					
C02185.00 KAWAHE RIVER BELOW TERMINUS DAM																				
69-10-06	5002	61060	7.3	5.10		7.9														
0800	5050	71			58															
69-11-03	5002	62038	9.5	4.04		7.7														
1400	5050	63			82															
69-12-09	5002	62073	11.9	1.40		7.2														
1145	5050	52			134															
70-04-06	5002	63827	8.0	2.05		7.9	10	1.4	4.8	1.6	0	43	4.5	3.2	1.1				74	31
0845	5050	54			87		0.50	0.12	0.21	0.04	0.00	0.70	0.09	0.09	0.02				0	
70-06-03	5002	64699	8.0	3.71		8.3	8.2	0.8	2.5	1.3	0	33	1.2	1.3	0.4				50	24
0900	5050	78			535		0.41	0.07	0.11	0.03	0.00	0.54	0.02	0.04	0.01					
C03196.00 TULE RIVER BELOW SUCCESS DAM																				
69-10-06	5002	61076	9.3	5.83		7.8														
1515	5050	74			183															
69-11-10	5002	62041				8.3														
5050					216															
69-12-01	5002	62075		3.44		7.5														
1415	5050	54			248															
70-04-06	5002	63828	10.5	4.24		8.3	23	3.6	12	2.3	0	105	5.6	4.8	1.8				11	73
0850	5050	56			111		1.16	0.30	0.52	0.06	0.00	1.72	0.12	0.14	0.01					
70-06-03	5002	64700	7.0	5.12		8.2	27	4.2	11	2.5	0	123	2.5	5.0	1.6				14	85
1305	5050	76			258		1.35	0.35	0.48	0.06	0.00	2.02	0.05	0.14	0.02					

TABLE D-2 (Continued)
MINERAL ANALYSES OF SURFACE WATER

Date	Samp. Lab.	Lab. No.	D.O.	G.H.	Fld. EC	Fld. pH	Mineral Constituents in										Milligrams per Liter					Milligrams per Liter				
Time	Lab.	Temp.	°F	SAT	Lab.	EC	Lab.	pH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH	CH			
COS150.00																										
KERN RIVER NEAR BAKERSFIELD																										
70-04-07	5633	63830							13	3.3	12	1.5	0	67	5.5	5.5	0.5									
1303	5050	58			143	8.0			0.65	0.27	0.52	0.04	0.00	1.10	0.20	0.16	0.01				0.2	83	46	0		
70-08-03	5633	64701							7.4	1.8	9.2	1.2	0	43	5.4	3.4	1.1				0.0	70	26			
1200	5050	72			99	8.3			0.37	0.15	0.40	0.03	0.00	0.70	0.11	0.10	0.02									
C11140.00																										
KINGS RIVER BELOW PINE FLAT DAM																										
70-10-13	5002	61079	12.5	5.0							1.0		0	10		1.5				0.0						
1305	5050	52			20	7.2					0.04		0.00	0.16		0.04						9	1			
69-11-10	5002	62035	11.5	4.02							1.1		0	10		1.1				0.0		6	0			
1330	5050	54			19	7.3					0.05		0.00	0.16		0.03										
70-04-08	5002	63825	10.0	5.03					3.9	0.6	2.4	0.9	0	17	2.1	0.5	0.5				0.0	27	12	0		
1025	5050	50		2.92	36	7.5			0.19	0.05	0.10	0.02	0.00	0.28	0.04	0.01	0.01									
70-06-07	5002	64702	9.2	5.40					3.4	0.8	1.5	0.6	0	14	0.6	0.8	0.2				0.0	31	12			
0915	5050	56		2600	31	7.8			0.17	0.07	0.06	0.02	0.00	0.23	0.01	0.02	0.00									
C11320.00																										
BIG CREEK ABOVE PINE FLAT DAM																										
69-10-13	5002	61077	9.5	1.36							8.7		0	52		8.0				0.0		34	0			
1030	5050	53		20	115	7.6					0.38		0.00	0.85		0.22										
69-11-10	5002	62037	10.0	1.54							2.8		0	22		1.9				0.0		15	0			
1045	5050	49		50	48	7.4					0.12		0.00	0.36		0.05										
C11460.00																										
KINGS RIVER BELOW NORTH FORK																										
69-11-10	5002	62036	10.2	4.32							7.5		0	48		6.6				0.0		32	0			
1135	5050	49		450	102	7.5					0.33		0.00	0.79		0.19										
C21250.00																										
KAWAH RIVER AT THREE RIVERS																										
69-10-06	5002	61081	10.7	2.67							5.8		0	66		3.7				0.0		49	0			
0500	5050	56			117	7.4					0.25		0.00	1.08		0.10										
69-11-03	5002	62039	9.2	2.67							5.7		0	61		5.4				0.0		46	0			
1330	5050	59			121	7.1					0.25		0.00	1.00		0.15										
69-12-01	5002	62072	11.3	2.59							6.4		0	72		5.9				0.1		54	0			
1110	5050	45			142	7.5					0.28		0.00	1.18		0.17										
C31150.00																										
TULE RIVER NEAR SPRINGVILLE																										
69-10-06	5002	61075	8.1	3.78							18		3	201		10				0.1		151	0			
1325	5050	64		40	347	8.4					0.78		0.10	3.29		0.28										
69-11-10	5002	62040									17		7	192		9.8				0.1		144	0			
	5050				345	8.5					0.73		0.23	3.15		0.28										
69-12-01	5002	62076	12.6	3.88							17		0	216		12				0.2		154	0			
1115	5050	44		52	362	8.1					0.74		0.00	3.54		0.34										
C51350.00																										
KERN RIVER BELOW ISABELLA DAM																										
70-04-20	5002	63829	10.0	5.95					12	3.9	9.4	1.6	0	62	9.4	5.6	0.3				0.1	94	46	0		
1500	5050	54		341	130	7.9			0.60	0.32	0.41	0.04	0.00	1.02	0.20	0.16	0.00									
70-08-10	5002	64703		8.32					7.2	1.9	8.9	1.2	0	42	4.9	3.1	1.4				0.0	69	26			
1000	5050	70		1205	91	8.2			0.36	0.16	0.39	0.03	0.00	0.69	0.10	0.09	0.02									
MISCELLANEOUS SAMPLES																										
MENDOTA POOL SOUTH OF DAM																										
70-09-02	5055	67234							36	20.9	82		0	136		124	5.5									
1430	5050				684	7.5			1.80	1.72	3.57		0.00	2.23		3.50	0.09									
B67316.30																										
FRESNO RIVER BELOW LEV LUMBER CO.																										
70-09-01	5055	67232							10	2.2	15		0	40		19	0.0									
1600	5050				137	8.1			0.50	0.18	0.65		0.00	1.66		0.54	0.00									
B71245.30																										
WILLOW CREEK SOUTH FORK ABOVE HIGHWAY 100																										
70-09-01	5055	67233							3.6	1.0	4.5		0	26		0.9	0.1									
1930	5050				46	7.5			0.18	0.08	0.20		0.00	0.43		0.02	0.00									
B71266.50																										
MANZANITA LAKE AT NORTH FORK WATER SUPPLY																										
77-06-05	5050	DPH01							13.9	1.8	12	2.3				3.0	2.9	0.0				123	43			
	5060				6.8				0.70	0.15	0.52	0.07				0.08	0.15									
B81160.30																										
GRISWOLD CREEK BELOW CAL-MERC INC.																										
70-09-02	5055	67579							457	367	1440		0	68		332	0.2									
1530	5050				7045	8.3			22.80	30.15	62.47		0.00	1.44		9.36	0.00									
B81180.30																										
SAN CARLOS CREEK BELOW NEW IIRIA MINE																										
70-09-02	5055	67580							390	441	186		0	0		68	6.3									
1600	5050				3937	4.0			19.46	36.28	8.09		0.00	0.00		1.92	0.10									

TABLE D-2 (Continued)
MINERAL ANALYSES OF SURFACE WATER

Date	Sample	Lab. No.	D.O.	G.N.	Fld. EC	Fld. pH	Mineral Constituents in										Milligrams per Liter			
							Milliequivalents per Liter										P	B	Cl	SO ₄
Time	Lab.	Temp.	Op	SAT	Q	Lab. EC	Lab. pH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃				
KINGS RIVER NORTH OF EMPIRE #1																				
70-05-03	5055	67581				512		15	14.5	160		6	125		70	2.7				57
1400	5050					934	7.6	2.75	1.19	0.96		0.00	2.75		1.47	0.04				
C04440.30																				
POSO CREEK AT ZERKER ROAD																				
70-03-17	5050	63801				45		5.7	161		4.6	0	163	23	225	11.3	0.9		581	135
1135	5050					1050	8.3	2.23	0.47	7.00	0.12	0.00	2.77	0.48	6.40	0.00				
C04452.30																				
POSO CREEK AT HEAD OF DIVERSION CHANNEL																				
70-03-17	5050	63802				43		6.6	161		4.0	0	164	23	223	9.6	0.9		554	135
	5050					1030	8.1	2.16	0.54	7.00	0.10	0.00	3.02	0.48	6.29	0.01				
C44050.30																				
LITTLE CREEK AT HIGHWAY #65 BRIDGE																				
70-03-17	5050	63803				20		3.5	373		6.6	3	216	136	394	0.2	1.6		1110	135
1520	5050					1860	8.4	1.01	0.29	16.23	0.17	0.09	3.54	2.83	11.11	0.09				
C61550.30																				
LIMEKILN CREEK AT OLD BARN ON WYMAN RANCH																				
69-10-09	5647	61882				41		18	17		2.7	0	206	36	6.8	0.1			220	177
	5050					396	7.8	2.00	1.48	0.73	0.07	0.00	3.38	0.75	0.19	0.00				7
C61555.30																				
BLACKBURN CREEK AT WEST RANCH NEAR DAN'S A PRAME																				
69-10-09	5647	61883				38		23	28		1.1	0	242	43	7.6	0.0	0.0		245	190
	5050					455	7.7	1.91	1.88	1.22	0.03	0.00	3.97	1.32	0.21	0.00				0
C62050.30																				
TEJON CREEK																				
70-01-06	5055	62080				1321		44	61.7	147		0	472		76	0.0				364
1120	5050					1250	8.1	2.20	5.07	6.39		0.00	6.65		2.14	0.00				

TABLE D-3
TRACE MINERAL ANALYSES OF SURFACE WATER

Table D-3 presents trace mineral analyses performed by the Department of Water Resources Laboratory or U. S. Geological Survey Laboratory. The following are definitions of abbreviations and chemical symbols used in this table.

Abbreviations

LAB Laboratory

5000 U. S. Geological Survey
5050 Department of Water Resources

M Milligrams per liter
U Micrograms per liter
Y Less than the amount indicated

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	HG	Mercury
BE	Beryllium	LI	Lithium
BI	Bismuth	MN	Manganese
BR	Bromine	MO	Molybdenum
CD	Cadmium	NI	Nickel
CO	Cobalt	PB	Lead
CR	Chromium	SR	Strontium
CU	Copper	TI	Titanium
FE	Iron	V	Vanadium
GA	Gallium	ZN	Zinc

TABLE D-3
TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE NO	OA	OE
B00050.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B00740.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B03115.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.50	3.3UY 1.3UY	3.3UY --	23U --	13UY	0.7UY
	70-08-05	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 5.3U	3.3UY 1.3UY	3.3UY --	8U --	13UY	0.7UY
B04105.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 4.3U	3.3UY 1.3UY	3.3UY --	730 --	13UY	0.7UY
	70-08-05	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 8U	3.3UY 1.3UY	3.3UY --	3.3UY --	13UY	0.7UY
B05131.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.6U	3.3UY 1.3UY	3.3UY --	6.0U --	13UY	0.7UY
	70-08-04	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 4.3U	3.3UY 1.3UY	3.3UY --	3.3UY --	13UY	0.7UY
B07020.00	69-10-08	5000	--	0.01MY	--	--	--	--	--	--	0.20M	--	--	--
	69-11-07	5000	--	0.01MY	--	--	--	--	--	--	0.15M	--	--	--
	69-12-05	5000	--	0.02MY	--	--	--	--	--	--	0.20M	--	--	--
	70-01-14	5000	--	0.00M	--	--	--	--	--	--	0.31M	--	--	--
	70-02-04	5000	--	0.01MY	--	--	--	--	--	--	0.20M	--	--	--
	70-03-18	5000	--	0.01M	--	--	--	--	--	--	0.15M	--	--	--
	70-04-15	5000	3.3UY 0.01MY	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 2.5U	3.3UY 1.3UY	3.3UY 0.36M	7.3U --	13UY	0.7UY
	70-05-13	5000	--	0.01MY	--	--	--	--	--	--	0.11M	--	--	--
	70-06-17	5000	--	0.01MY	--	--	--	--	--	--	0.29M	--	--	--
	70-07-15	5000	--	0.01M	--	--	--	--	--	--	0.53M	--	--	--
	70-08-18	5000	3.3UY 0.02M	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 5.3U	3.3UY 1.3UY	3.3UY 0.50M	330 --	13UY	0.7UY
	70-09-16	5000	--	0.01M	--	--	--	--	--	--	0.47M	--	--	--
B07375.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.6U	3.3UY 1.3UY	3.3UY --	6.0U --	13UY	0.7UY
	70-08-18	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	31U --	3.3UY 1.3UY	3.3UY 7.3U	3.3UY 1.3UY	3.3UY --	21U --	13UY	0.7UY
B67316.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B67319.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B71220.00	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B71245.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B71548.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B81160.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B81180.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	19.0M	--	--
C01122.30	70-09-03	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
C01140.00	70-04-08	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.10	3.3UY 1.3UY	3.3UY --	15U --	13UY	0.7UY
	70-08-03	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 1.3UY	3.3UY --	3.3UY --	13UY	0.7UY
C03196.00	70-04-08	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.7U	3.3UY 1.3UY	3.3UY --	11U --	13UY	0.7UY
	70-08-03	5000	3.3UY --	-- 3.3UY	1.3UY 3.3UY	0.7UY 0.7UY	43U --	3.3UY 1.3UY	3.3UY 1.9U	3.3UY 1.3UY	3.3UY --	52U --	13UY	0.7UY
C05145.30	70-09-03	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
C05150.00	70-08-03	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.4U	3.3UY 1.3UY	3.3UY --	41U --	13UY	0.7UY
C12090.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--

TABLE D-3
TRACE MINERAL ANALYSES OF SURFACE WATER
(continued)

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE HG	GA	GE
C12250.00	70-09-01	5050	--	--	--	--	--	--	--	--	--	-- 0.0M	--	--
C15130.30	70-09-10	5050	--	--	--	--	--	--	--	--	--	-- 0.0M	--	--
C51500.00	70-04-07	5000	29U --	-- 3.3UY	1.3UY 3.3U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.5UY	3.3UY 8.7U	3.3UY 13UY	3.3UY --	13U --	13UY	0.7UY

TABLE D-4
MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-4 presents analyses which do not appear on Tables D-2 and D-3. The following are definitions of abbreviations used in this table.

BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
NH ₃ +N	Ammonia plus Organic Nitrogen (as N)
POT	Total and Organic Phosphates (as P)
TRB	Turbidity
LAB	Laboratory

5000 U. S. Geological Survey

5050 Department of Water Resources

5060 State Department of Public Health

TABLE D-4
MISCELLANEOUS CONSTITUENTS OF SURFACE WATER
(Milligrams per liter)

STATION NO. :	DATE :	LAB :	BOD :	COD :	NH ₃ +N :	POT :	TRB :
B00470.00	70-02-11	5050			1.8	0.63	
B07020.00	69-10-08	5050	2.7	7			
	69-10-08	5000				0.49	15
	69-11-07	5050	2.8	5			
	69-11-07	5000				0.35	25
	69-12-05	5050	2.3	6			
	69-12-05	5000				0.50	16
	70-01-14	5050	2.2	7			
	70-01-14	5000				0.56	15
	70-02-04	5050	1.6	5			
	70-02-04	5000				0.09	35
	70-03-18	5050	2.2	17			
	70-03-18	5000				0.20	30
	70-04-15	5050	4.9	22			
	70-04-15	5000				1.5	30
	70-05-13	5050	3.6	14			
	70-05-13	5000				0.52	40
	70-06-17	5050	3.6	8			
	70-06-17	5000				1.0	45
	70-07-15	5050	6.8	23			
	70-07-15	5000				1.4	46
	70-08-18	5050	5.3	35			
	70-08-18	5000				1.4	50
	70-09-16	5050	5.2	16			
	70-09-16	5000				0.99	16
B07375.00	70-02-11	5050			1.4	0.24	
B71286.50	70-08-05	5060					2.1

APPENDIX E
GROUND WATER QUALITY



INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1970 water year (October 1, 1969 through September 30, 1970). These data were obtained from analyses of water samples from approximately 230 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 139.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analysis of ground water by various laboratories and agencies cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation.

5050	State Department of Water Resources
5070	State Division of Forestry
5129	Kings County Water District
5647	Tehachapi Cummings Water District
5648	Buttonwillow Improvement District
5702	Individual Property Owner
5703	Valley Waste Disposal Company
5718	Jade Oil and Gas Company
5803	Hornkohl Laboratory
5806	B. C. Laboratory
5817	Biological Testing and Research Laboratory

Explanation of county code is listed on page 12.

Chemical Symbols

K	Potassium	B	Boron
Mg	Magnesium	Ca	Calcium
Na	Sodium	Cl	Chloride
NO ₃	Nitrate	CO ₃	Carbonate
SiO ₂	Silica	F	Fluoride
SO ₄	Sulfate	HCO ₃	Bicarbonate

Abbreviations

EC	Electrical Conductance	TDS	Total Dissolved Solids
FLD	Field Determination	TEMP	Temperature
LAB	Laboratory	TH	Total Hardness
NCH	Non-Carbonate Hardness	pH	Measure of Acidity or Alkalinity of Water

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

State Well Number:		Lab No.:	Samp.:	Temp.:	Pid.:	EC:	Pid. pH:	Mineral Constituents in								Milligrams per Liter				Milligrams per Liter				Milligrams per Liter			
Date		Time:	Co.:	Lab.:	P:	Lab.:	EC:	Lab. pH:	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	Fe	Mn					
09S/18E-20A01M	1000	20	5050	60	809	7.2	52	2.59	30	2.50	7.36		0	0.00	333	5.46	42	1.36					255				
09S/18E-20E01M	1015	20	5050	62	650	7.1	54	2.65	25	2.07	3.52	3.7	0	0.00	251	4.11	21	0.44	41	1.16		0.0	396				
10S/17E-04J01M	1215	20	5050	72	280	7.3	26	1.30	7.5	0.62	1.13		0	0.00	121	1.98		16	0.45				96				
10S/17E-06A01M	1230	20	5050	74	230	7.3	22	1.10	0.58	1.09	0.12	4.6	0	0.00	98	1.61	5.8	0.14	36	1.02		0.0	238				
10S/17E-22D01M	1200	20	5050	72	175	7.2	15	0.75	6.0	0.49	0.91		0	0.00	96			11	0.31			60					
10S/17E-22K01M	1145	20	5050	78	300	7.4	29	1.45	7.7	0.63	2.56		0	0.00	223	3.65		49	1.38			104					
10S/17E-25N01M	1100	20	5050	75	180	7.2	18	0.90	6.8	0.56	0.83		0	0.00	98	1.61		17	0.48			73					
10S/17E-26B01M	1130	20	5050	72	120	7.1	9.6	0.48	3.6	0.30	0.38		0	0.00	67			5.4	0.15			39					
10S/18E-08J01M	1030	20	5050	70	630	6.8	56	2.79	22	1.85	4.1	1.78	0	0.00	231	3.79		43	1.21			232					
11S/18E-06P01M	1300	20	5050	73	180	7.2	20	1.00	7.3	0.60	0.78		0	0.00	113	1.85		20	0.56			80					
11S/18E-10D01M	1430	20	5050	66	280	7.2	29	1.45	9.6	0.79	2.17	2.3	0	0.00	140	2.29	3.8	0.08	35	0.99		0.0	211				
11S/18E-20E01M	1340	20	5050	72	135	7.1	16	0.80	4.6	0.38	0.96		0	0.00	104	1.70		18	0.51			59					
11S/18E-34B01M	1400	20	5050	71	160	7.1	12	0.60	4.9	0.40	0.78		0	0.00	73	1.20		15	0.42			50					
11S/19E-32C01M	0910	20	5050	72	200	7.1	15	0.75	6.4	0.22			0	0.00	94	1.54		21	0.59			64					
11S/19E-32P01M	0850	20	5050	52	220	7.0	23	1.15	0.83	1.23	1.00		0	0.00	105	1.72		27	0.76			99					
11S/19E-34N01M	1000	20	5050	64	190	7.4	19	0.95	7.7	0.63	0.78		0	0.00	88	1.44		25	0.20			79					
11S/20E-31P01M	1400	20	5050	76	175	6.8	9.9	0.49	5.0	0.16	0.70	4.3	0	0.00	49	0.80	3.3	0.07	14	0.39		0.0	182				
12S/19E-12R01M	1220	20	5050	74	165	7.1	13	0.65	6.4	0.16			0	0.00	61	1.00		14	0.39			59					
12S/19E-13A01M	1210	20	5050	76	150	7.0	13	0.65	6.2	0.51	0.70		0	0.00	63	1.03		14	0.37			58					
12S/19E-20L01M	1330	20	5050	78	230	7.0	21	1.05	10	0.85	0.87		0	0.00	96	1.57		26	0.73			95					
13S/24E-08J01M	1200	10	5070		623	8.2	7.2	0.36	7.9	6.53	7.8	0.8	0	0.00	416	6.82	5.1	0.11	5.6	0.16		0.0	345				
14S/10E-15O1MS	1530	10	5050	100	3843	8.6	40	2.00	29	2.42	35.89		16	0.53	29			1400	0.8			121					
14S/21E-04N01M	1030	10	5050	68	250	8.2	26	1.30	1.38	0.70			0	0.00	178	2.92		7.6	0.21			134					
14S/21E-05B02M	1030	10	5050	64	600	7.3	48	3.3	2.40	2.75	4.1	1.78	0	0.00	287	4.70		24	0.68			258					
14S/21E-09A01M	1000	10	5050	59	260	7.6	25	1.25	1.31	0.78			0	0.00	163	2.67		7.9	0.15			121					
14S/21E-12P01M	0935	10	5050	68	860	7.1	65	3.24	46	3.77	1.83	0.42	0	0.00	328	5.38		37	1.04			351					
15S/10E-21C01M	0840	35	5050	79	1800	7.9	134	6.69	72	5.88	5.60		0	0.00	377	6.18		81	0.59		4.4	629					
15S/10E-21L01M	0815	35	5050	80	1750	7.7	154	7.68	80	6.54	7.40		0	0.00	281	4.60		60	1.65		2.3	712					
15S/23E-33C01M	1100	10	5050	69	480	7.3	38	1.90	16	1.30	2.9	1.26	0	0.00	206	3.30		20	0.56			160					
15S/24E-22N01M	0950	10	5050	66	470	7.1	41	2.04	16	1.28	1.09		0	0.00	179	2.93		15	0.23			166					
15S/24E-23D01M	0940	10	5050	62	500	7.1	49	2.94	32	2.61	5.3	2.30	0	0.00	342	5.60		49	1.38			378					
15S/24E-26P01M	0915	10	5050	68	520	7.3	47	2.35	19	1.54	1.13		0	0.00	190	3.11		34	0.56			194					
15S/24E-26Q01M	0900	10	5050	62	890	7.3	93	4.64	32	2.63	2.13		0	0.00	323	5.29		69	1.95			364					
16S/23E-03P02M	1445	54	5050	67	700	7.7	39	1.95	13	1.03	6.15	2.6	0	0.00	258	4.23	35	0.73	13	0.27		0.0	348				
16S/24E-34R01M	1305	54	5050	69	750	7.8	56	2.79	21	1.71	1.23	2.9	0	0.00	190	3.61	3.1	1.27	15	0.60		0.0	416				
16S/25E-09L01M	1540	54	5050	67	400	7.6	30	1.50	14	1.20	0.78	3.4	0	0.00	164	2.69	5.6	1.2	14	0.29		0.0	230				
16S/25E-32M02M	1250	54	5050	80	800	8.1	78	3.89	32	2.62	1.70		0	0.00	381	6.24		44	1.24			326					

MINERAL ANALYSES OF GROUND WATER

206

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number	Lab No.	Samp. Temp. °F	Fld. EC	Fld. pH	Mineral Constituents in Milligrams per Liter										Milligrams per Liter				
Date	Time	Co. Lab.	Lab. EC	Lab. pH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH	NCH
21S/27E-21P01M		65947	5050	66	340									11	18				
70-09-17	1410	54	5050		336									0.31	0.29				
21S/27E-21R02M		65948	5050	70	350									19	12				
70-09-17	1400	54	5050		350									0.54	0.19				
21S/27E-27D01M		65950	5050	73	540									36	11				
70-09-17	1347	54	5050		544									1.02	0.18				
21S/27E-27F01M		61040	5050	72	700									57	9.2				148
69-10-16	1400	54	5050		630	7.4	34	15	78	3.35	0	222	3.64	57	1.61	0.15			
21S/27E-27P01M		65949	5050	74	580	6.8	15	24	73		0	228		44	10	0.16			137
70-09-18	0915	54	5050		611	7.6	0.75	1.99	3.18		0	00	3.74	1.24	0.16				
21S/27E-27G03M		65951	5050	72	290									12	16				
70-09-18	0930	54	5050		286									0.34	0.26				
21S/27E-27L01M		66888	5050	69	240	7.0	30	4.9	10	0.44	0	122		8.8	7.4				95
70-09-18	1010	54	5050		238	7.8	1.50	0.40	0.40		0	00	2.00	0.25	0.12				
21S/27E-27M02M		66889	5050	69	490	7.0								22	27				
70-09-17	1245	54	5050		486									0.62	0.44				
21S/27E-28E02M		66890	5050	68	480	7.2								19	41				
70-09-17	1205	54	5050		475									0.54	0.66				
21S/27E-34B01M		66891	5050	72	400	7.2	50	3	27		0	220		13	19				139
70-09-18	1030	54	5050		415	7.9	2.50	0.28	1.17		0	00	3.60	0.37	0.31				
21S/27E-34D01M		66892	5050	69	470	7.0	47	10	24		0	251		12	15				161
70-09-17	1230	54	5050		444	8.0	2.35	0.87	1.04		0	00	4.11	0.34	0.24				
22S/17E-15M02M		63971	5050	66	1300									52	1.9				107
70-04-13	1430	16	5050		1290	8.1	37	4	242		0	80		1.47	0.03				
22S/18E-11C01M		63972	5050	78	900									41	1.1				64
70-04-13	1530	16	5050		867	8.1	22	1.10	2	155	6.74	0	82	1.16	0.02				
22S/19E-18N02M		63965	5050	69	900									25	2.4				567
70-04-13	1610	16	5050		852	8.2	15	0.75	5.5	153	1.1	0	110	245	5.18	0.70	0.04		60
22S/22E-10A01M		63973	5050	67	210									14	13				27
70-04-14	1130	16	5050		262	8.2	8.2	0.41	2	50		0	125	0.40	0.21				
22S/24E-10E01M		61927	5050	70	380									31	3.8				244
69-10-15	1105	54	5050		373	7.6	2.09	0.44	1.26	0.02	0	153	14	0.87	0.06				127
22S/27E-04Q01M		61928	5050	70	600									29	17				294
69-10-16	1150	54	5050		469	7.6	2.80	1.00	25	1.09	0.07	0	205	0.60	0.43	0.32			190
22S/28E-05D01M		66893	5050	68	440	7.0	42	8.5	43	1.87	0	220		41	1.3				140
70-09-17	0900	54	5050		471	8.0	2.10	0.70	4		0	00	3.60	1.16	0.02				
22S/28E-06A02M		66894	5050	82	220	7.1	25	3.5	12		0	124		6.6	1.1	0.2			77
70-09-17	1000	54	5050		210	7.8	1.25	0.29	0.52		0	00	2.03	0.19	0.02				
22S/28E-06B04M		66895	5050	69	440	7.6	35	18	32	2.9	0	183		27	40	0.64	0.2	0.1	265
70-09-17	0807	54	5050		460	8.2	1.75	1.45	1.39	0.07	0	00	3.00	0.46	0.76	0.40			162
23S/18E-30A01M		63974	5050	70	1400									39	1.1				211
70-04-13	1400	16	5050		1450	8.1	1.90	2.32	238	10.35	0	103		1.10	0.02				
23S/24E-36R01M		61941	5050	80	340									22	2.8				14
69-10-03	0900	54	5050		330	8.7	0.13	0.15	3.13		5	120		0.62	0.04				
23S/25E-21C01M		61929	5050	71	280									7.6	7.3	2.5			176
69-10-16	0910	54	5050		230	8.1	0.6	0.3	44	1.1	0	112	1.84	0.16	0.21	0.04			23
23S/25E-25R01M		61930	5050	69	450									18	21				56
69-10-16	0925	54	5050		351	8.0	0.86	0.25	2.35	0.06	0	00	2.26	0.29	0.51	0.34			0
24S/24E-27A01M		61942	5050	79	700									130	5.3				202
69-10-03	1200	54	5050		742	8.2	3.34	0.70	3.57		0	114		3.67	0.08				
24S/25E-17P02M		61943	5050	73	220									11	2.2				44
69-10-03	0835	54	5050		231	8.3	0.85	0.03	1.48		0	109		0.31	0.04				
24S/26E-17A01M		61931	5050	68	280									11	5.9	8.6			152
69-10-16	0940	54	5050		226	7.9	0.94	0.33	1.00	0.06	0	102	1.67	0.23	0.16	0.14			63
25S/18E-05J01M		61842	5050	74	1400									112	6.7				430
69-10-01	1540	15	5050		1390	8.0	4.79	3.80	6.87		0	263	4.31	3.16	0.11				
25S/19E-06D01M		61843	5050	78	3000									340	5.84	0.90			911
69-10-01	1630	15	5050		3090	8.2	110	5.49	12.75	17.40	0	00	3.21	5.84	0.90				
25S/23E-11J01M		61844	5050	74	210									6.6	0.1				3
69-10-02	1315	15	5050		166	9.6	1.2	0.01	33	1.44	23	0.77	29	0.48	0.15	0.00			
25S/23E-33H01M		61066	5050	71	4750									4.0					2940
69-10-02	1335	15	5050		4720	7.2	27.24	1.13	18.84	4.6	0	16	0.26	6.00	41.19	0.06			1410
25S/24E-12B01M		61067	5050	78	800									61	60	166			592
69-10-02	1510	15	5050		832	7.8	3.64	0.08	3.39	0.02	0	00	1.00	1.25	4.68	0.16			186
25S/24E-27R01M		61845	5050	73	875									58	48				339
69-10-02	1450	15	5050		945	7.9	128	6.39	0.38	3.22	0	177		1.60	0.77				
25S/25E-09C01M		61068	5050	83	1350									114	320	13			1190
69-10-01	0850	15	5050		1490	7.8	183	9.13	1.97	3.35	0.12	0	2.80	2.37	9.03	0.21			557
25S/25E-31A01M		61069	5050	78	820									64	112	125			614
69-10-01	0920	15	5050		784	6.5	92	4.59	0.13	3.13	0.03	0	1.05	2.33	3.53	0.71			184
25S/27E-11J01M		20511	5718																
70-09-11		15	5803											34	0.96				300
25S/27E-23J01M		203785	5718																
70-06-26		15	5803											27	0.76				299

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number	Lab No.	Sample	Temp.	Fld. EC	Fld. pH	Mineral Constituents in										Milligrams per Liter					Milligrams per Liter				
Date	Time	Co.	Lab.	Lab. EC	Lab. pH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS	TH						
25S/20E-20A01M	61090	5050	82	450		7.7	44	4.4		0	168	21	21	12				275	104						
69-10-01 1245	15	5050		387	7.9	1.45	0.63	1.91	0.11	0.00	2.75	0.44	0.59	0.19					0						
26S/18E-18P03M	61846	5050	74	1800		6.3	230			0.00	238		169	38		1.7		493							
69-10-01 1500	15	5050		1860	8.0	3.14	6.71	10.00		0.00	3.90		4.77	0.61											
26S/22E-27Q01M	61847	5050	80	2300		128	3.9	355		0.00	69		578	0.9		1.0		336							
69-10-02 1015	15	5050		2390	7.6	6.39	0.32	15.44		0.00	1.13		16.30	0.01											
70-04-14	9553	5648	76	2700	8.1	68	3	570		0.00	62	367	700	1.3		0.65	1739	183							
	15	5806				3.39	0.25	24.78		0.00	1.02	7.64	19.74	0.02											
26S/22E-34R01M	9557	5648	78	4420	7.9	123	3	850		0.00	45	406	1208	2.6		0.75	2614	320							
70-04-14	15	5806				6.14	0.25	36.96		0.00	0.74	8.49	34.07	0.04											
26S/22E-35M01M	9533	5648	75	3270	7.9	129	3	670		0.00	92	580	787	3.1		1.16	2215	335							
70-04-14	15	5806				6.44	0.25	29.13		0.00	1.51	12.08	22.19	0.05											
26S/23E-31P01M	9510	5648	78	1300	7.0	40	1	266		0.00	78	97	367	2.0		0.44	810	100							
70-04-14	15	5806				2.00	0.08	11.57		0.00	1.28	2.02	10.36	0.03											
26S/23E-31Q01M	9535	5648	78	1600	8.2	50	0	279		0.00	29	111	419	5.8		0.35	874	125							
70-04-14	15	5806				2.50	0.00	12.13		0.00	0.48	2.31	11.84	0.09											
26S/23E-32P03M	9798	5648	72	418	8.5	10	0	70		10	54	51	45	3.5		0.09	213	25							
70-05-07	15	5806				0.50	0.00	3.04		0.33	0.89	1.06	1.26	0.06											
26S/23E-32Q01M	9799	5648	76	571	8.2	20	0	100		0.00	65	93	84	7.1		0.07	329	50							
70-05-07	15	5806				1.00	0.00	4.35		0.00	1.07	1.94	2.37	0.12											
26S/24E-23R01M	61848	5050	82	280		10	0.7	31		0.00	57		15	7.5		0.0		28							
69-10-02 1415	15	5050		203	8.2	0.50	0.06	1.35		0.00	0.93		0.42	0.12											
26S/24E-31P01M	61091	5050	78	160		3.6	0.5	34	0.7	12	55	11	7.4	2.8		0.0		118	11						
69-10-02 0940	15	5050		160	9.5	0.18	0.04	1.48	0.02	0.40	0.90	0.23	0.21	0.04				0							
26S/25E-05C01M	61849	5050	78	1200		150	13	82		0.00	69		210	54		0.0		426							
69-10-01 0955	15	5050		1200	7.8	7.48	1.09	3.57		0.00	1.13		5.92	0.87											
26S/26E-06P02M	61850	5050	82	1190		141	11	92		0.00	65		150	90		0.0		398							
69-10-01 1030	15	5050		1210	7.8	7.04	0.91	4.00		0.00	1.06		4.23	1.45											
27S/22E-01P01M	9544	5648	76	1750	7.9	69	0	307		0.00	66	323	319	4.5		1.0	1051	173							
70-04-14	15	5806				3.44	0.00	13.35		0.00	1.08	6.72	9.00	0.06											
27S/22E-09Q01M	9537	5648	76	2000	8.2	60	0	321		0.00	70	77	503	0.4		0.8	996	150							
70-04-14	15	5806				2.99	0.00	13.96		0.00	1.15	1.60	14.18	0.01											
27S/22E-03Q01M	9527	5648	76	2680	8.1	86	2	416		0.00	63	73	708	0.4		0.6	1316	223							
70-04-14	15	5806				4.29	0.16	18.09		0.00	1.03	1.52	18.97	0.01											
27S/22E-11C01M	9532	5648	78	4560	7.7	163	3	925		0.00	51	552	1284	0.9		0.8	2952	420							
70-04-14	15	5806				6.13	0.25	40.22		0.00	0.84	11.49	36.21	0.02											
27S/22E-12Q01M	9524	5648	77	1940	7.9	161	1	318		0.00	56	374	469	0.4		0.5	1351	407							
70-04-14	15	5806				8.03	0.08	13.82		0.00	0.92	7.79	13.23	0.01											
27S/22E-36Q01M	9543	5648	76	1640	8.1	37	0	284		0.00	37	100	408	3.1		0.3	847	93							
70-04-16	15	5806				1.85	0.00	12.35		0.00	0.61	2.08	11.51	0.05											
27S/22E-36R02M	9523	5648	77	3050	7.9	149	3	487		0.00	37	0	1000	0.4		0.2	1657	386							
70-04-16	15	5806				7.44	0.25	21.17		0.00	0.61	0.00	28.20	0.01											
27S/23E-05Q08M	9802	5648	76	2550	8.0	97	0	558		0.00	55	24	981	0.5		0.9	1687	243							
70-05-07	15	5806				4.84	0.00	24.26		0.00	0.90	0.50	27.66	0.01											
27S/23E-06Q01M	9546	5648	79	1340	8.3	70	1	241		0.00	64	168	336	4.5		0.5	848	179							
70-04-14	15	5806				3.49	0.08	10.48		0.00	1.05	3.50	9.48	0.07											
27S/23E-06R01M	9505	5648	76	887	8.7	37	1	163		0.00	66	100	207	3.1		0.5	541	97							
70-04-14	15	5806				1.85	0.08	7.09		0.00	1.08	2.08	5.84	0.05											
27S/23E-07Q01M	9550	5648	77	2110	7.7	50	0	339		0.00	36	126	496	9.2		0.5	1029	125							
70-04-14	15	5806				2.50	0.00	14.74		0.00	0.59	2.62	13.99	0.15											
27S/23E-08Q01M	9579	5648	73	3570	7.9	130	2	690		0	168	1015	452	24.8		1.6	2373	334							
70-04-20	15	5806				6.49	0.16	30.00		0.00	2.75	21.13	12.75	0.40											
27S/23E-08P01M	9801	5648	72	1940	7.9	75	0	365		0.00	38	189	533	0.5		1.1	1181	188							
70-05-07	15	5806				3.74	0.00	15.87		0.00	0.62	3.93	15.03	0.01											
27S/23E-09L01M	9580	5648	72	2330	8.0	130	1	460		0	148	879	207	18.2		1.1	1751	330							
70-04-20	15	5806				6.49	0.08	20.00		0.00	2.43	18.30	5.84	0.29											
27S/23E-10H01M	9552	5648	76	342	9.4	8	0	74		28	15	74	32	3.1		0.0		223	20						
70-04-15	15	5806				1.40	0.00	3.22		0.93	0.25	1.54	0.90	0.05											
27S/23E-10M01M	9507	5648	77	187	9.5	0	0.00	0.00	2.26	20	34	28	16	1.3		0.0		133	0						
70-04-15	15	5806				0	0.00	0.00	2.26	0.67	0.56	0.58	0.45	0.02											
27S/23E-11R01M	9506	5648	77	419	9.4	30	1	78		11	27	132	49	5.8		0.0		315	79						
70-04-15	15	5806				1.50	0.08	3.39		0.37	0.44	2.75	1.38	0.09											
27S/23E-14K01M	9525	5648	76	322	9.5	7	0	69		0.00	38	82	22	3.9		0.0		199	18						
70-04-15	15	5806				0.35	0.00	3.00		0.00	0.62	1.71	0.62	0.06											
27S/23E-17H02M	61092	5050	83	1100		26	0.2	190	1.4	0.00	61	17	290	0.2		0.2		601	66						
69-10-01 1330	15	5050		1070	7.9	1.30	0.02	8.26	0.04	0.00	1.00	0.35	8.18	0.00				16							
27S/23E-17P01M	9516	5648	79	783	8.8	20	1	136		0	57	52	176	0.4		0.0		413	54						
70-04-14	15	5806				1.00	0.08	5.91		0.00	0.93	1.08	4.96	0.01											
27S/23E-18D01M	9519	5648	73	5770	7.8	192	3	1020		0	47	361	1623	2.6		0.9	3223	493							
70-04-14	15	5806				9.58	0.25	44.34		0.00	0.77	7.52	45.77	0.04											
27S/23E-18H01M	9511	5648	79	1410	8.0	38	1	267		0	51	92	384	2.0		0.3	807	99							
70-04-14	15	5806				1.90	0.08	11.61		0.00	0.82	1.92	10.83	0.03											
27S/23E-20C01M	9518	5648	77	946	9.0	40	2	190		7	46	159	217	1.3		0.2	638	108							
70-04-14	15	5806				2.00	0.16	8.26		0.23	0.75	3.31	6.12	0.02											
27S/23E-20E01M	9800	5648	72	208	8.5	0	0	41		14	20	0	35	0.5											

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number	Lab No.	Samp. ID	Temp. °F	Pld. EC	Pld. pH	Mineral Constituents in Milligrams per Liter										Milligrams per Liter									
						Ca	Mg	Na + K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH	CH						
Date	Time	Co.	Lab.	EC	EC	Ca	Mg	Na + K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH	CH						
27S/23E-21C01M 70-04-14	9528 15	5648 5806	79		459	9.1	10 0.50	0 0.00	94 4.09	0 0.00	43 0.70	76 1.58	78 2.20	0.4 0.01				279	25						
27S/23E-22C01M 70-04-15	9508 15	5648 5806	79		1340	8.6	30 1.49	0 0.00	286 12.44	0 0.00	57 0.93	67 1.39	411 11.60	0.4 0.01	0.44			822	75.1						
27S/23E-23P01M 70-04-15	9504 15	5648 5806	80		762	8.5	39 1.94	0 0.00	136 5.91	0 0.00	50 0.82	72 1.50	196 5.54	8.5 0.14	0.19			468	97.6						
27S/23E-24Q01M 70-04-15	9542 15	5648 5806	76		268	8.9	8 0.40	0 0.00	69 3.00	0 0.00	33 0.54	86 1.79	21 0.58	3.9 0.06				200	20						
27S/23E-29L01M 70-04-14	9554 15	5648 5806	74		233	9.5	0 0.00	0 0.00	69 3.00	8 0.27	16 0.26	73 1.52	19 0.55	0.9 0.01	0.01			177	0						
27S/23E-35C01M 70-04-15	9512 15	5648 5806	77		358	9.4	10 0.50	0 0.00	83 3.61	12 0.40	31 0.51	112 2.33	31 0.87	0.4 0.01	0.02			263	25						
27S/24E-05P01M 69-10-02 0925	61851 15	5050	76		160 162		4.4 0.22	0 0.00	33 1.44	7 0.23	42 0.69	24 0.34	23 0.34	5.3 0.05					11						
27S/24E-10A01M 69-10-01 1040	61093 15	5050	75		260 267		20 1.00	0.2 0.02	36 1.57	0.4 0.01	0 0.00	76 1.24	24 0.50	65 0.65				170	51 0						
27S/24E-22Q01M 69-10-01 1050	61094 15	5050	77		650 665		82 4.09	0.1 0.01	53 2.30	0.9 0.02	0 0.00	50 0.82	95 1.96	110 3.10	35 0.56			502	205 164						
27S/24E-31K01M 70-04-15	9526 15	5648 5806	77		392	9.3	10 0.50	1 0.08	78 3.39	0 0.00	35 0.57	85 1.77	45 1.28	3.1 0.05	0.01			236	29						
27S/25E-06N01M 69-10-01 1010	61095 15	5050	73		260 243		23 1.15	1.6 0.13	29 1.26	0.1 0.00	0 0.00	98 1.61	13 0.27	9.5 0.27	16 0.26			165	64 0						
27S/26E-22N01M 70-03-24	20235 15	5703 5803			1282	7.3	121.6 6.07	16.1 1.32	104 4.52	4.8 0.12	0 0.00	122 2.00	38.4 0.80	323.4 9.12	0.25	0	5.0	765.2							
70-08-31	204938 15	5703 5803	800	7.9			82.4 4.11	5.9 0.49	86.5 3.76	2.76 0.07	0 0.00	90.3 1.48	13.4 0.28	234 6.60	0.10	0	20	487							
27S/26E-22Q01M 70-08-31	204939 15	5703 5803	278	8.2			14 0.70	2 0.16	41.6 1.81	1.27 0.03	0.16 0.16	65.3 1.07	11.5 0.24	42.6 1.20	0.10	0	20.5	169.2							
27S/26E-25J01M 70-03-24	202236 15	5703 5803	455	8.6			11.6 0.58	2.7 0.22	94.3 4.10	0.7 0.02	6.6 0.22	51.9 0.85	70.6 1.47	83.7 2.36	0.33	0	20	296.3							
27S/26E-27A01M 70-04-02	202381 15	5703 5803	1000	7.3			147.6 7.37	24.9 2.05	63.5 2.76	3.80 0.10	0 0.00	152.5 2.50	29.8 0.62	321.3 9.06	0.33	0.10	27.3	663.4							
70-08-31	204941 15	5703 5803	526	7.8			37.6 1.88	6.3 0.52	75.4 3.28	1.61 0.04	0 0.00	161 2.64	11.5 0.24	99.3 2.80	0.85	0	23.5	334.1							
27S/26E-27R01M 70-03-24	202237 15	5703 5803	2041	7.3			273.6 13.65	52.2 4.29	87.9 3.82	6.9 0.18	0 0.00	194 3.18	201.6 4.20	510.6 14.40	0.10	0	35	1230							
27S/26E-27R01M 70-08-31	204940 15	5703 5803	1818	7.9			274.4 13.69	59 4.85	28.8 1.25	5.63 0.14	0 0.00	198.3 3.25	84.5 1.76	524.8 14.80	0.10	0	16	1087							
28S/22E-01K01M 70-04-16	9549 15	5648 5806	77		1600	8.3	50 2.50	1 0.08	274 11.91	0 0.00	21 0.73	73 1.52	447 12.62	6.7 0.11	0.01			855	129.1						
28S/22E-12A01M 70-05-18	9899 15	5648 5806	74		1260	8.8	26 1.30	2.5 0.21	190 8.26	0 0.07	57 0.93	160 3.33	200 5.66	7.5 0.12	0.51			609	75.6						
28S/22E-13Q01M 70-05-18	9898 15	5648 5806	67		1480	8.3	120 5.99	3 0.25	155 6.74	0 0.00	55 0.90	310 6.45	195 5.90	0.9 0.01	0.12			810	312.8						
28S/23E-01C01M 70-04-15	9539 15	5648 5806	77		356	8.7	10 0.50	0 0.00	80 3.48	6 0.20	32 0.52	108 2.25	35 1.0	1.3 0.02	0.10			271	25						
28S/23E-06P01M 70-04-16	9530 15	5648 5806	77		1370	8.8	43 2.15	0 0.00	237 10.30	0 0.00	29 0.48	125 2.60	332 9.37	1.3 0.02	0.14			752	107.6						
28S/23E-08E01M 70-04-16	9548 15	5648 5806	78		1320	8.3	20 1.00	1 0.08	250 10.87	0 0.00	45 0.74	168 3.50	273 7.71	3.1 0.05	0.10			735	54						
28S/23E-09M01M 70-04-16	9534 15	5648 5806	77		1300	8.7	60 2.99	1 0.08	198 8.61	0 0.00	27 0.44	260 5.41	207 5.84	1.3 0.02	0.29			739	154.1						
28S/23E-14B01M 70-04-16	9522 15	5648 5806	70		373	8.6	20 1.00	0 0.00	71 3.09	0 0.00	58 0.95	108 2.25	32 0.90	5.9 0.10	0.01			260	50						
28S/23E-16J01M 70-04-16	9558 15	5648 5806	77		698	9.3	22 1.10	0.8 0.08	123 5.35	8 0.27	28 0.46	127 2.64	112 3.16	0.4 0.01	0.01			407	59						
28S/23E-17K01M 70-04-16	9515 15	5648 5806	78		2140	8.5	88 4.39	2 0.16	340 14.78	0 0.00	41 0.67	132 2.75	563 15.90	2.0 0.03	0.25			1145	228.1						
28S/23E-22E01M 70-04-16	9513 15	5648 5806	76		356	9.5	8 0.40	0 0.00	79 3.43	14 0.47	22 0.36	59 1.23	62 1.76	5.8 0.09	0.01			233	20						
28S/23E-24P01M 70-04-16	9514 15	5648 5806	69		211	5.0	8 0.40	1 0.08	51 2.22	0 0.00	54 0.89	64 1.33	17 0.48	2.0 0.03	0.01			168	24						
28S/23E-30J01M 70-05-18	9900 15	5648 5806	68		590	8.0	24 1.20	3.9 0.32	80 3.48	0 0.00	120 1.97	100 2.08	35 0.99	0.5 0.01	0.24			303	76						
28S/23E-34Q01M 70-04-16	9555 15	5648 5806	75		350	9.5	0 0.00	0 0.00	87 3.78	10 0.33	18 0.30	62 1.29	66 1.86	1.3 0.02	0.01			234	0						
28S/23E-35K01M 70-04-16	9536 15	5648 5806	77		728	9.1	46 2.30	0 0.00	124 5.39	10 0.33	29 0.48	170 3.54	118 3.33	0.4 0.01	0.38			483	115						
28S/23E-36N01M 70-04-16	9541 15	5648 5806	69		326	8.7	22 1.10	0 0.00	69 3.00	0 0.00	22 0.36	117 2.44	35 0.99	0.4 0.01	0.02			254	55						
28S/24E-05N01M 70-04-15	9509 15	5648 5806	76		154	8.9	0 0.00	0 0.00	47 2.04	0 0.00	56 0.92	37 0.77	13 0.37	1.3 0.02	0.01			125	0						
28S/24E-06N01M 70-04-15	9520 15	5648 5806	76		792	8.8	50 2.50	2 0.16	118 5.13	0 0.00	46 0.75	227 4.73	81 7.2	7.2 0.12	0.01			501	133						
28S/24E-08N01M 70-04-16	9551 15	5648 5806	75		306	9.1	8 0.40	0 0.00	69 3.00	0 0.00	40 0.66	83 1.73	29 0.82	2.6 0.04	0.01			209	20						

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number	Lab No.	Date	Time	Co.	Lab.	Temp.	Pld.	EC	pH	Mineral Constituents in										Milligrams per Liter					Milligrams per Liter				
										Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH						
										Lab. EC	Lab. EC	Lab. EC	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH			
28S/24E-09A01M	9540	70-04-15			15	5648	72		912	7.7	76	3.79	0	100	4.35	0	27	174	144	4.06	0.01	0.01			508	190			
28S/24E-15H01M	9538	70-04-16			15	5648	74		417	8.1	32	1.60	0	63	2.74	0	56	93	1.94	52	1.47	0.01	0.02		268	80			
28S/24E-20A01M	9556	70-04-16			15	5648	74		211	9.1	0	0.00	0	69	3.00	8	36	54	1.12	35	0.99	0.01	0.01		184	0			
28S/24E-27P01M	9529	70-04-16			15	5648	71		206	8.9	5	0.25	0	56	2.43	0	48	59	1.23	16	0.45	0.01	0.01		160	12			
28S/24E-28A01M	61097	69-10-01	1230		15	5050	75	1200	1190	8.2	100	4.99	0.7	132	5.74	1.6	0	31	137	256	7.5	0.0	0.0		810	253			
70-04-16	9521				15	5648	73		1320	8.5	118	5.89	1	154	6.70	0	28	205	281	6.7	0.01	0.01		773	299				
28S/25E-04P02M	61098	69-10-01	1135		15	5050	80	550	611	7.9	75	3.74	2.2	50	1.6	0.4	0	99	100	64	54	0.0	0.0		395	198			
29S/23E-02J01M	9531	70-04-16			15	5648	77		2210	7.9	92	4.59	3	362	15.74	0	60	167	571	4.5	0.21	0.21		1225	243				
29S/23E-03L01M	9545	70-04-16			15	5648	68		1670	7.4	85	4.24	4	274	11.91	0	158	361	226	0.4	0.83	0.83		1029	229				
29S/23E-12D01M	9517	70-04-16			15	5648	76		1640	7.9	69	3.44	1	292	12.70	0	49	140	443	6.7	0.06	0.06		970	177				
29S/24E-04J01M	9893	70-05-15			15	5648	72		530	8.5	23	1.15	1	08	53	2.30	0	48	10	79	5.7	0.14	0.14		190	63			
29S/24E-05J01M	9897	70-05-16			15	5648	73		440	8.9	10	0.50	1	08	63	2.74	0.13	0.92	0.10	2.23	0.09	0.14	0.14		185	42			
29S/24E-07N01M	9896	70-05-15			15	5648	76		1520	7.9	65	3.24	1.5	245	10.65	0	95	5	404	0.5	0.12	0.12		796	168				
29S/24E-08P01M	9895	70-05-15			15	5648	78		540	8.4	13	0.65	1	95	4.13	0	82	5	106	0.5	0.24	0.24		261	38				
29S/24E-10R01M	9892	70-04-20			15	5648	71		290	8.0	5	0.25	1	08	1.65	0	61	25	13	0.5	0.14	0.14		112	18				
29S/24E-17W01M	9894	70-05-15			15	5648	76		480	8.6	10	0.50	1	08	75	3.26	0	77	10	71	2.00	0.39	0.39		205	30			
29S/26E-16P01M	65484	70-07-01	1330		15	5050		550	620	8.3	71	3.54	7.0	44	1.91	0	109	1.79	72	2.03	0.2	0.2		206					
32S/24E-26A01M	62078	69-10-30	1515		15	5050		5170	7.5		461	22.99	182	700	30.45	12	0	98	320	127	16	6.2	6.2		4890	1900			
32S/31E-23R01M	63068	70-01-16	1035		15	5647		282	8.0		25	1.25	7.2	18	2.5	0.6	0	71	20	14	45	0.0	0.0		184	92			
32S/31E-26A01M	61946	69-11-26	1020		15	5050																							
70-01-16	63067		1030		15	5050		1010	8.3		118	5.89	31	2.55	1.72	7.6	0	206	85	89	174	0.0	0.0		614	424			
32S/31E-27N01M	61873	69-10-07	1330		15	5050	66	618	498	8.2	31	1.56	22	1.81	36	6.8	0	212	32	36	1.02	0.0	0.0		240	169			
32S/31E-35N01M	61884	69-10-07	1415		15	5050	63	434	484	8.1	56	2.79	13.5	29	1.26	0	203	167	18	6.7	0.1	0.1		195					
32S/31E-36C01M	61885	69-10-07	1345		15	5050	63	570	598	8.4	64	3.19	21	1.73	39	1.70	5	240	393	21	22	0.1	0.1		246				
32S/32E-12P01M	61886	69-10-17	1030		15	5647	58	396	443	8.3	48	2.40	9.5	35	1.52	0	210	3.44	18	8.2	0.5	0.5		159					
32S/32E-13P01M	61887	69-10-17	1050		15	5050	63	418	475	8.3	53	2.64	10.5	34	1.48	0	212	3.47	18	13	0.2	0.2		175					
32S/32E-19L01M	61874	69-10-07	1245		15	5647	67	477	543	7.6	73	3.63	14	22	0.94	3.6	0	184	104	16	9.6	0.0	0.0		369	241			
32S/32E-23J01M	61875	69-10-07	0900		15	5647	63	569	640	7.7	69	3.46	19	48	2.09	0.2	0	301	62	30	2.8	0.1	0.1		364	252			
32S/32E-25N01M	61876	69-10-07	0845		15	5050	64	487	554	7.8	37	1.86	13	60	2.61	0.06	0	137	119	27	1.4	0.0	0.0		345	145			
32S/32E-28H01M	61888	69-10-07	1215		15	5050	63	433	506	8.4	67	3.34	19	18	0.78	0	252	4.13	9.6	13	0.1	0.1		249					
32S/32E-30P01M	61889	69-10-07	1430		15	5050	66	566	619	8.5	66	3.29	21	39	1.70	7	260	4.26	28	22	0.1	0.1		255					
32S/32E-34B01M	62079	69-10-07	1015		15	5050	62	534	570	7.8	75	3.74	22	17	0.74	0	275	4.52	11	9.2	0.0	0.0		279					
32S/33E-20P01M	61877	69-10-07	0730		15	5647	62	322	370	7.9	47	2.33	6.4	25	1.07	1.1	0	179	19	0.40	0.28	0.0	0.0		198	143			
32S/33E-22M03M	61878	69-10-06	0945		15	5050	60	338	375	7.8	44	2.20	5.2	26	1.13	0.9	0	137	28	19	22	0.0	0.0		225	132			
32S/33E-26P01M	61879	69-10-06	1315		15	5050	57	420	496	7.9	64	3.17	8.5	33	1.42	0.8	0	216	49	18	14	0.0	0.0		278	194			
32S/33E-28A01M	61890	69-10-06	1500		15	5647	65	382	421	8.3	56	2.79	9	23	1.00	0	189	3.10	15	20	0.1	0.1		177					
32S/33E-29K01M	61891	69-10-06	1530		15	5647	67	371	383	8.3	38	1.90	5.4	39	1.70	0	166	2.72	12	11	0.1	0.1		117					
32S/33E-30C01M	61892	69-10-07	0815		15	5647	60	414	477	8.4	60	2.99	13	28	1.22	2	213	3.49	14	3.3	0.0	0.0		204					

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number:Lab No.:Samp. Temp.:				Fld. EC:Fld. EC:		Mineral Constituents In										Milligrams per Liter					Milligrams per Liter				
				P				Milliequivalents per Liter										Milligrams per Liter							
Date	Time	Co.	Lab.	Lab. EC	Lab. EC	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS	TH						
328/34E-15N02M		61880	5647	50	811																				
69-10-06	0900	15	5050		781	7.9	2.56	1.48	4.65	0.04	0.00	5.51	2.37	0.59	0.18		0.4	495	204	0					
328/34E-30M01M		61881	5647	63	526																				
69-10-06	1230	15	5050		585	7.8	3.74	0.78	1.63	0.03	0.00	3.44	1.54	0.85	0.31		0.0	342	226	54					
328/34E-34B01M		61893	5647	62	467																				
69-10-06	1000	15	5050		567	8.4	2.00	0.92	3.04		0.17	3.74		0.39	0.68		0.5			146					

TABLE E-2
TRACE MINERAL ANALYSES OF GROUND WATER

Table E-2 presents trace mineral analyses performed by the Department of Water Resources Laboratory or U. S. Geological Survey Laboratory. The following are definitions of abbreviations and chemical symbols used in this table.

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	HG	Mercury
BE	Beryllium	LI	Lithium
BI	Bismuth	MN	Manganese
BR	Bromine	MO	Molybdenum
CD	Cadmium	NI	Nickel
CO	Cobalt	PB	Lead
CR	Chromium	SR	Strontium
CU	Copper	TI	Titanium
FE	Iron	V	Vanadium
GA	Gallium	ZN	Zinc

Abbreviations

LAB	Laboratory
5000	U. S. Geological Survey
5050	Department of Water Resources
M	Milligrams per liter
U	Micrograms per liter
Y	Less than the amount indicated

TABLE E-2
TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL LI	AS MN	RE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE MO	GA	OE
05S/18E-26E01 M	70-04-29	5000	17U --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 7.3U	3.3UY 1130U	3.3UY --	3.3UY --	1.3UY	0.7UY
10S/17E-06A01 M	70-04-29	5000	26U --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 6.7U	3.3UY 130Y	3.3UY --	107U --	13UY	0.7UY
11S/16E-10D01 M	70-04-29	5000	20U --	24U --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 93U	3.3UY 93U	3.3UY --	29U --	13UY	0.7UY
11S/20E-31P01 M	70-04-30	5000	23U --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 6.7U	3.3UY 200U	3.3UY --	22U --	13UY	0.7UY
13S/24E-06J01 M	70-05-14	5050	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0.03M --	-- --	-- --
15S/10E-21C01 M	70-09-02	5000	45U --	-- 8U	1.3UY 18U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 130Y	3.3UY --	10U --	13UY	0.7UY
15S/25E-31D01 M	69-10-17	5000	3.3UY --	3.3UY --	1.3UY 3.1UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 16U	3.3UY 130Y	3.3UY --	3.3UY --	13UY	0.7UY
17S/27E-35P01 M	69-10-17	5000	3.3UY --	12U --	1.3UY 5.6U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 7.3U	3.3UY 7000U	3.3UY --	12U --	13UY	0.7UY
18S/10E-06L01 M	70-09-16	5000	3.3UY --	3.3UY --	1.3UY 0.3UY	17U 5.1U	-- 3.3UY	3.3UY 1.3UY	67U 2.2U	23U 93U	45U --	37U --	13UY	0.7UY
18S/21E-26D01 M	70-04-15	5000	200U --	4.7U --	1.3UY 10U	0.7UY 14U	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.5U	3.3UY 130Y	93U --	390U --	13UY	0.7UY
18S/22E-25Q01 M	70-04-16	5000	47U --	-- 9.3U	1.3UY 30U	0.7UY 1.7U	-- 3.3UY	3.3UY 1.3UY	3.3UY 22U	3.3UY 130Y	3.3UY --	80U --	13UY	0.7UY
18S/24E-34P01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.3U	3.3UY 120U	3.3UY --	12U --	13UY	0.7UY
18S/26E-36C01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 5.3U	0.7UY 0.7UY	-- 6.7U	3.3UY 1.3UY	3.3UY 8.7U	3.3UY 3700U	3.3UY --	15U --	13UY	0.7UY
19S/25E-31J02 M	69-10-15	5000	3.3UY --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 4.2U	3.3UY 310U	3.3UY --	4U --	13UY	0.7UY
20S/27E-19Q01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 5.6U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 5.3U	3.3UY 800U	3.3UY --	8.7U --	13UY	0.7UY
21S/27E-27D01 M	70-09-17	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
21S/27E-27P01 M	70-09-17	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
	70-09-18	5000	3.3UY --	-- 100Y	1.3UY 6.7U	-- 8U	-- 3.3UY	3.3UY 1.3UY	63U 23U	3.3UY 130Y	3.3UY --	47U 0.5UY	13UY	0.7UY
21S/27E-35M01 M	69-10-16	5000	8.7UY --	-- 3.3UY	1.3UY 2U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.6U	3.3UY 130Y	3.3UY --	4.5U --	13UY	0.7UY
22S/17E-15M02 M	70-04-13	5000	3.3UY --	3.3UY --	1.3UY 26U	-- 0.7UY	-- --	3.3UY 1.3UY	3.3UY 15U	3.3UY 130Y	3.3UY --	23U --	13UY	0.7UY
22S/19E-18M02 M	70-04-13	5000	3.3UY --	3.3UY --	1.3UY 9.3U	0.7UY 0.7UY	-- --	3.3UY 1.3UY	3.3UY 21U	3.3UY 130Y	3.3UY --	17U --	13UY	0.7UY
22S/26E-16M01 M	69-10-10	5000	12U --	3.3UY --	1.3UY 2.2U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.6U	3.3UY 130Y	3.3UY --	4.3U --	13UY	0.7UY
23S/18E-30A01 M	70-04-13	5000	3.3UY --	3.3UY --	1.3UY 43U	0.7UY 1.3U	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.5U	3.3UY 130Y	3.3UY --	17U --	13UY	0.7UY
23S/27E-27Q01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 15U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 15U	3.3UY 130Y	3.3UY --	3.3UY --	13UY	0.7UY
24S/24E-09Q02 M	69-10-16	5000	73U --	13U --	1.3UY 20U	0.7UY 0.7UY	-- 3.3UY	3.3UY 3.5U	3.3UY 0.9U	3.3UY 130Y	3.3UY --	230U --	13UY	1.6U
24S/24E-27A01 M	69-10-03	5050	-- --	0.04M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
32S/24E-26A01 M	69-10-30	5000	3.3UY --	-- 30U	1.3UY 730U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 7.3U	3.3UY 670U	3.3UY --	3.3UY --	13UY	0.7UY
32S/31E-36C01 M	69-11-26	5000	3.3UY --	-- 3.3UY	1.3UY 8U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 2.7U	3.3UY 1100U	3.3UY --	3.3UY --	13UY	0.7UY
32S/32E-12P01 M	69-11-26	5000	3.3UY --	-- 3.3UY	1.3UY 4.7U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 130Y	3.3UY 130Y	3.3UY --	3.3UY --	13UY	3.5U
32S/32E-34B01 M	69-11-24	5000	3.3UY --	3.3UY --	1.3UY 3.6U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.3U	3.3UY 120U	3.3UY --	3.3UY --	1.3UY	0.7UY
32S/33E-26P01 M	69-11-24	5000	3.3UY --	3.3UY --	1.3UY 13U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 2.2U	3.3UY 560U	3.3UY --	3.3UY --	13UY	0.7UY
32S/34E-15H02 M	69-11-24	5000	3.3UY --	3.3UY --	1.3UY 44U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 11U	3.3UY 400U	3.3UY --	3.3UY --	13UY	0.7UY
32S/34E-34B01 M	69-11-26	5000	3.3UY --	3.3UY --	1.3UY 36U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 17U	3.3UY 130Y	3.3UY --	3.3UY --	13UY	0.7UY

TABLE E-3
MISCELLANEOUS CONSTITUENTS OF GROUND WATER

Table E-3 presents analyses which do not appear on Tables E-1 and E-2. The following are definitions of abbreviations used in this table.

ABS	Methylene Blue Active Substances (as Alkyl Benzene Sulfonate)
FOP	Filterable Orthophosphate (as P)
LAB	Laboratory

5050 Department of Water Resources

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER
(Milligrams per liter)

STATE WELL NUMBER	:	DATE	:	LAB	:	ABS	:	FOP
21S/27E-21A01 M		70-09-17		5050				0.65
21K02 M		70-09-17		5050				0.58
21N01 M		70-09-17		5050				0.04
21P01 M		70-09-17		5050				0.02
21R02 M		70-09-17		5050				0.78
27D01 M		70-09-17		5050		0.1		4.3
27F01 M		70-09-17		5050		0.1		7.4
27G03 M		70-09-18		5050				0.06
27L01 M		70-09-18		5050				0.03
27M02 M		70-09-17		5050				0.08
28E02 M		70-09-17		5050				0.53
34B01 M		70-09-18		5050				0.76
34D01 M		70-09-17		5050				0.09
22S/28E-05D01 M		70-09-17		5050				0.03
06A02 M		70-09-17		5050				0.62



APPENDIX F
WASTE WATER DATA

INTRODUCTION

Appendix F presents quantities of waste water discharged by selected waste treatment facilities, during the 1970 water year (October 1, 1969 through September 30, 1970) in the Tulare Lake Subbasin. The information presented in Table F-1 was obtained from the files of the California Regional Water Quality Control Board, Central Valley Region.

Definitions

The following are definitions of terms and abbreviations used in Table F-1:

mgd	million gallons per day
AF/Yr	acre-feet per year
C.S.D.	Community Services District
S.D.	Sanitation District
W.W. Dist.	Water Works District
W.D.	Water District
C.W.D.	County Water District
P.U.D.	Public Utilities District
Mtce. Dist.	Maintenance District

TABLE F-1
INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
FRESNO COUNTY			
Biola C. S. D.	0.1	110	Land
Caruthers C. S. D.	0.1	110	Land
Clovis, City of	1.5	1,680	Land
Coalinga, City of	0.2	220	Land
Del Rey C. S. D.	0.5	560	Land
Fowler, City of	0.5	560	Land
Fresno, City of	26	29,200	Land
Fresno County Industrial Farm	0.1	110	Land
Fresno County S. D. No. 1	0.4	450	Land
Fresno County S. D. No. 2	0.1	110	Land
Fresno Co. W. W. Dist. No. 18	0.2	220	Land
Huron, City of	0.1	110	Land
Kerman, City of	0.2	220	Land
Kingsburg, City of	0.5	560	Land
Laton County W. D.	0.1	110	Land
Malaga County Water District	0.8	900	Land
Mendota, City of	0.5	560	Land
Orange Cove S. D.	0.5	560	Land
Parlier, City of	0.1	110	Land
Parlier, West, C. S. D.	0.2	220	Land
Pinedale C. W. D.	0.5	560	Land
Pinedale P. U. D.	0.5	560	Land

TABLE F-1 (Continued)

INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
------------	-------------------------------	---------------------------------	---------------------

FRESNO COUNTY (continued)

Reedley, City of	1.5	1,680	Land
Riverdale P. U. D.	0.1	110	Land
Sanger, City of	2.0	2,240	Land
San Joaquin, City of	0.1	110	Land
Selma, City of	0.8	900	Land
Tranquillity P. U. D.	0.1	110	Land

KERN COUNTY

Arvin County S. D.	0.1	110	Land
Bakersfield, City of, No. 1	8.0	8,960	Land
Bakersfield, City of, No. 2	12.0	13,450	Land
Bakersfield, City of, No. 3	3.0	3,360	Land
Bakersfield, Mt. Vernon Co. S. D.	6.0	6,720	Land
Bakersfield, North of the River S. D. No. 1	4.0	4,480	Land
Buttonwillow County W. D.	0.1	110	Land
Delano, City of, Plant No. 1	1.5	1,680	Land
Delano, City of, Plant No. 2	1.0	1,120	Land
Lamont P. U. D.	0.2	220	Land
Maricopa, City of	0.1	110	Land
McFarland, City of	0.5	560	Land
Shafter P. U. D.	1.0	1,120	Land

TABLE F-1 (Continued)
INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
KERN COUNTY (continued)			
Taft, City of	1.0	1,120	Land
Tehachapi, City of	0.4	450	Land
Tehachapi Correct. Inst.	0.5	560	Land
Wasco, City of	1.0	1,120	Land
KINGS COUNTY			
Armona, City of	0.1	110	Land
Avenal C. S. D.	0.3	340	Land
Corcoran, City of	0.5	560	Land
Hanford, City of	1.5	1,680	Land
Lemoore, City of	1.0	1,120	Land
Lemoore Naval Air Station	0.2	220	Land
Stratford P. U. D.	0.1	110	Land
TULARE COUNTY			
Cutler P. U. D.	0.5	560	Land
Dinuba, City of	1.5	1,680	Land
Earlimart P. U. D.	0.2	220	Land
Exeter, City of	0.7	780	Land
Farmersville, City of	0.1	110	Land
Ivanhoe P. U. D.	0.1	110	Land
Lindsay, City of	1.0	1,120	Land
Linnell Farm Labor Camp	0.1	110	Land

TABLE F-1 (Continued)
INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
TULARE COUNTY (continued)			
London C. S. D.	0.1	110	Land
Orosi P. U. D.	0.5	560	Land
Pixley P. U. D.	0.1	110	Land
Porterville, City of	1.5	1,680	Land
Springville P. U. D.	0.2	220	Land
Strathmore P. U. D.	0.2	220	Land
Terra Bella Sewer Mtce. Dist.	0.1	110	Land
Tulare, City of	5.0	5,600	Land
Visalia, City of	5.0	5,600	Land
Woodlake, City of	1.0	1,120	Land
Woodville Farm Labor Center	0.1	110	Land







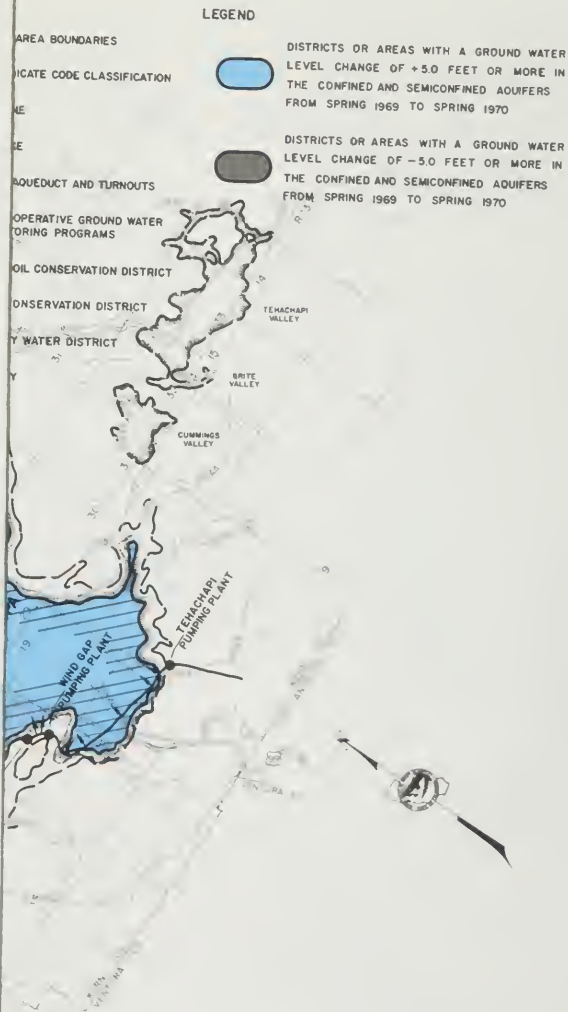
- LEGEND**
- DISTRICT OR AREA BOUNDARIES
 - S-22 00 NUMBERS INDICATE CODE CLASSIFICATION
 - FOOTHILL LINE
 - BEDROCK LINE
 - CALIFORNIA AQUEDUCT AND TURNOUTS
 - WELLS MEASURED MONTHLY
 - WELLS MEASURED ANNUALLY AND SEMI-ANNUALLY
 - DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1969 TO SPRING 1970
 - DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1969 TO SPRING 1970

STATE OF CALIFORNIA
THE RESOURCE AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1970
GROUND WATER LEVEL CHANGES
UNCONFINED AND SEMICONFINED AQUIFERS
AND
SELECTED OBSERVATION WELLS

SCALE OF MAP





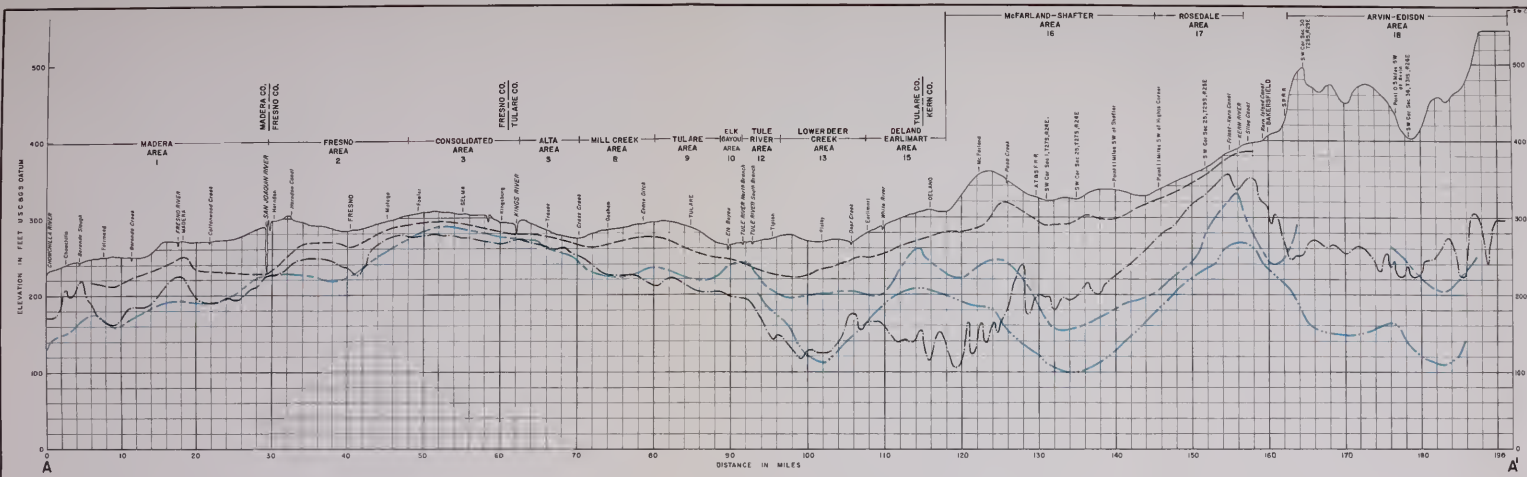
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1970
GROUND WATER LEVEL CHANGES
AND
COOPERATIVE PROGRAM AREAS

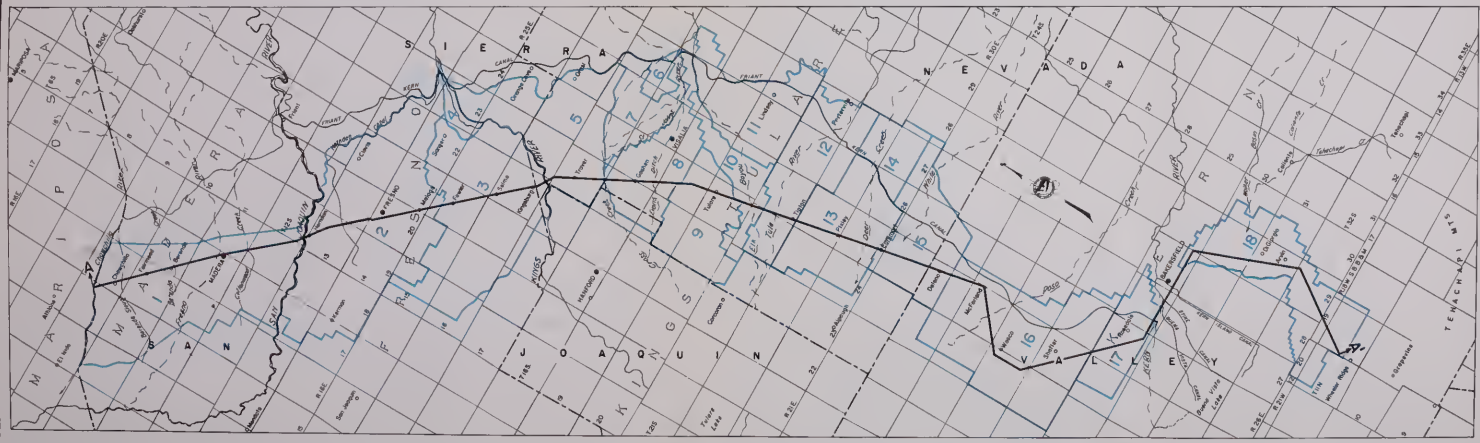
SCALE OF MILES
0 1 2 3 4 5 6 7 8 9 10 11 12







- HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS
- 1 MADERA
 - 2 FRESNO
 - 3 CONSOLIDATED
 - 4 CENTERVILLE BOTTOMS
 - 5 ALTA
 - 6 WARDSE
 - 7 OUTSIDE WARDSE
 - 8 MILL CREEK
 - 9 TULARE
 - 10 ELK RANCHO
 - 11 LINDSAY-EXETER
 - 12 TULE RIVER
 - 13 LOWER DEER CREEK
 - 14 MIDDLE DEER CREEK
 - 15 DELAND-EARHART
 - 16 MCFARLAND-SHAFTER
 - 17 ROSEDALE
 - 18 ARVIN-EDDISON



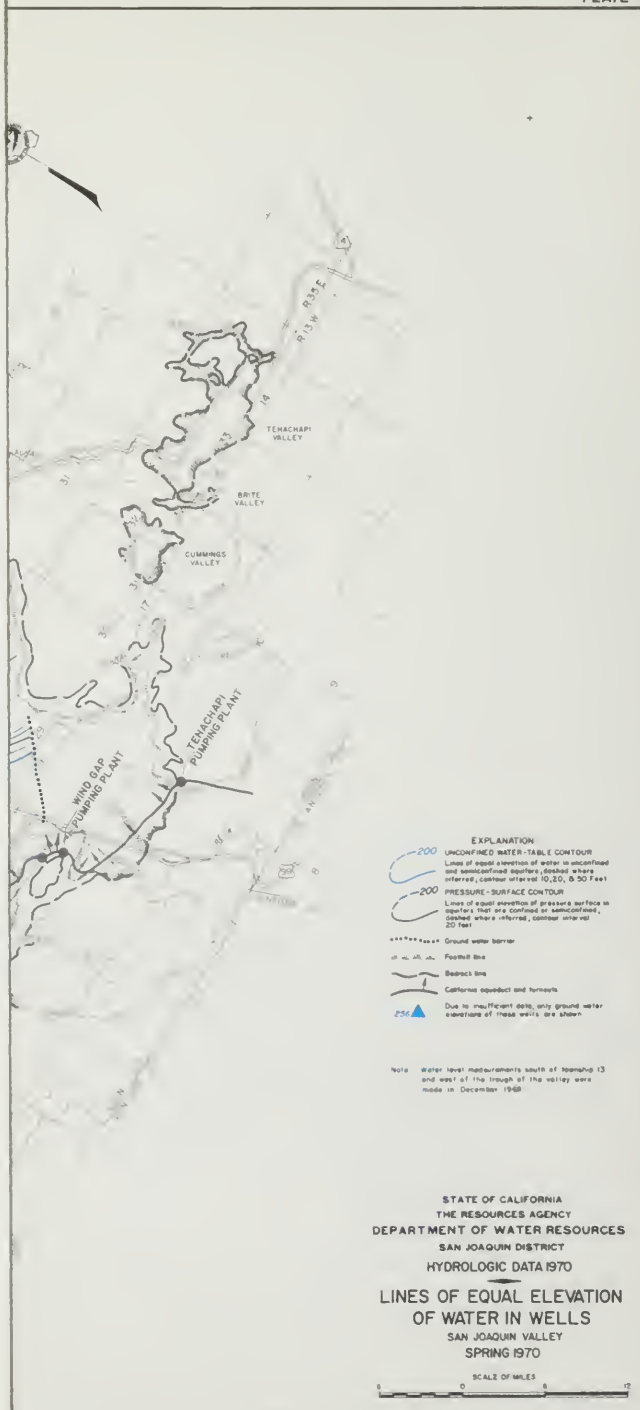
- LEGEND
- GROUND WATER AREA BOUNDARIES
 - - - GROUND WATER LEVEL FALL 1921
 - - - GROUND WATER LEVEL FALL 1951
 - - - GROUND WATER LEVEL SPRING 1970, UNCONFINED AQUIFER
 - - - GROUND WATER LEVEL SPRING 1970, PRESSURE SURFACE
 - GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1970

MAP OF SELECTED GROUND WATER AREAS
IN THE SAN JOAQUIN VALLEY
AND
PROFILES ALONG SECTION A-A' SHOWING
GROUND WATER LEVELS IN 1921, 1951 & 1970

SCALE OF MILES
0 10 20 30









EXPLANATION

PRESSURE-SURFACE CONTOUR
Lines of equal change of pressure surface in
aquifers that are confined or semi-confined;
contour interval 20 Feet

UNCONFINED CONTOUR
Lines of equal change of water levels in
unconfined and semi-confined aquifers;
contour interval 5, 10 and 20 Feet

BARRIER
Ground water barrier

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1970

**LINE OF EQUAL CHANGE
OF WATER LEVELS IN WELLS**

PRESSURE SURFACE AND UNCONFINED AQUIFERS

SAN JOAQUIN VALLEY
SPRING 1965 TO SPRING 1970

SCALE OF MILES
2 0 2 4 6

THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW

BOOKS REQUESTED BY ANOTHER BORROWER
ARE SUBJECT TO RECALL AFTER ONE WEEK.
RENEWED BOOKS ARE SUBJECT TO
IMMEDIATE RECALL

APR 1 1978

JAN 24 REC'D

NOV 1 1978

NOV 11 REC'D

FEB 15 1979

JAN 6 1986

JUN 20 1986

RECEIVED

APR 29 1986

RECEIVED

JUN 30 1987

APR 1 1987

LIBRARY, UNIVERSITY OF CALIFORNIA, DAVIS

Book Slip--Series 458

3 1175 00477 6780

TC California. Dept. of Water Resources.
824 Bulletin.
C2
A2
no. 130:70
v. 4-5
apps. 1-5
PHYSICAL
SCIENCES
LIBRARY

